

SYSHRW

Water Source Heat Pumps
Models 019 to 120

Refrigerant R407C **R407C**

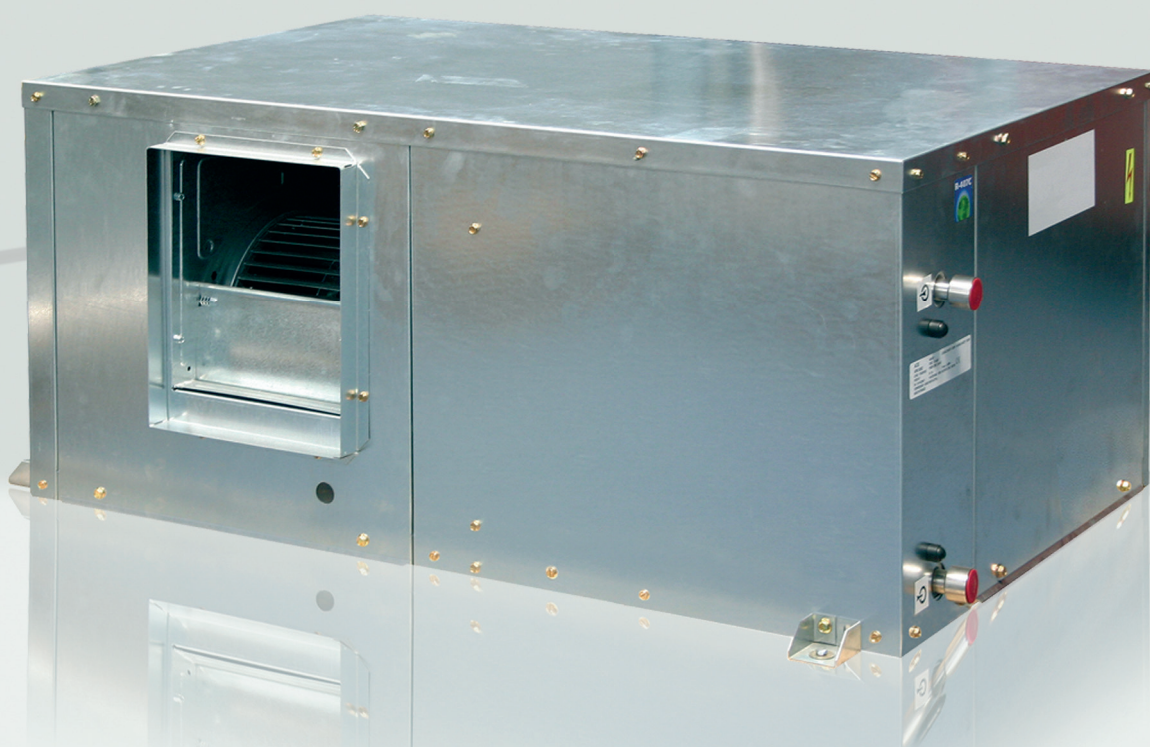
5.8 to 38.1kW



5.3 to 29.9kW



1 250 to 5 600 m³/h



Description of Units

- 4 optimally compact case sizes, 17 models with a nominal cooling capacity ratings ranging from **5.3 to 29.9kW** and a nominal heating capacity ranging from **5.8 to 38.1kW**.
- High efficiency horizontal units with **high COP** values.
- Easy access to the compressor, fan and electronic control box, through **wide removable panels**.
- **In-line (S1), or L air blowing (S2).**
- Condensate drain pan with **anti-corrosion treatment** by oven-baked epoxy paint, equipped with a **float-type safety system** to protect against accidental condensate overflow.
- **3-speed direct drive fan** motor or **belt driven fan with variable pitch pulley**.
- **Heat exchanger with brazed stainless steel plates** on the water/refrigerant side, for improved efficiency.
- **Differential pressure switch for antifreeze protection** as standard.
- **Bi-Flow thermostatic expansion valve** for a wide operating range.
- Autonomous control by **Siemens POL423 controller**. The **RCS user remote control** includes a digital display and key control buttons.
- The optional **POL895 removable display** enables the configuration of a master/slaves network of **15 units**.



Technical Specifications

Introduction

The new generation of **SYSHRW model reversible water source heat pumps** is the fruit of our considerable product experience and our awareness of the market, all combined with a technology based on the energy efficiency of machines, in order to provide a market offer for **units with the highest performance in terms of COP**.

Range

The **SYSHRW horizontal units** are designed for installation in specifically designed false ceilings or in technical rooms, and are available with a range of nominal cooling capacity ratings of between **5.3** and **29.9kW** and a range of nominal heating capacity ratings of between **5.8** and **38.1**, with **17 models** based on **4 different case sizes**.

Operating range

To enable a much wider operating range and operation using a water source in an application with a dry cooler, the standard **SYSHRW** units are designed to operate in a **water source temperature range of between 13 and 48 °C (according to the models)**.

Casing design

The casing is made of galvanised sheet steel. To facilitate access to the main components, wide removable panels provide access to the compressor, the fan and the electronic control box.

The condensate drain pan has anti-corrosion treatment consisting of oven-baked epoxy paint.

The inside of the casing, on the fan compartment side, is coated with closed cell polyurethane foam thermal-acoustic insulation; this lagging is 15 mm thick and is classified M1. On the compressor compartment side, the thermal-acoustic insulation consists of Isofeutre felt, 15 mm thick (except on models 96 and 120).

Filtration

All units are factory equipped with a G2M1 disposable air filter, 20 or 25 mm thick, according to the models. Optionally, the units can be fitted with G3M1 filter. The filter can be removed/installed from the side of the units without plenum and from the side or from the bottom of the units equipped with plenum, without having to remove the optional return duct.

Hydraulic connections

The water source outlet and return connectors are located on the outside of the unit, on the compressor compartment side. They are female gas type tapped fittings 3/4" or 1"1/4 (male), according to the models. The condensate evacuation connection is of the smooth tube type, with an outside diameter of 19 mm for models 19 to 72, 22 mm for models 96 and 120.

Electronic control box

The electrical box is located inside the compressor compartment. A wide access panel is provided to facilitate the maintenance operations.

The electrical power supply required for model 19 is 230 V / 1 Ph / 50 Hz, whereas models **SYSHRW** 27 to 120 require 400 V / 3 Ph / 50 Hz + neutral. The compressors are factory equipped with an internal thermal protection with an automatic reset function.

Refrigerant circuit

The refrigerant circuit comprises a scroll or rotary type hermetic compressor, a cycle reversal valve, a water/refrigerant heat exchanger, a liquid receiver, a bi-flow thermostatic expansion valve and a finned coil.

The refrigerant circuit also comprises an HP pressure switch with manual reset (range 28-20 bar) and an LP pressure switch with an automatic reset function (range 1.4-2.4 bar). Two Schrader valves (HP & LP) are available for pressure measurement on the refrigerant circuit. The water/refrigerant heat exchanger is of the brazed stainless steel plate type, for increased efficiency. The anti-freeze safety of the heat exchanger is provided, on the one hand, by a water pipe sensor located on the water outlet of the unit and, on the other hand, by a water flow protection monitored by the electronic board. Maximum service pressure is 31 bar. The heat exchangers are particularly well adapted to the operation of reversible heat pumps which have high thermal transfer rates for a low water flow-rate.

The air/refrigerant coil is made up of aluminium fins which are mechanically crimped onto copper tubes. The geometry of the coil and of the fin profile have been carefully designed to provide maximum efficiency in the operation of the units.

The cycle reversal valve is designed to be normally energised in heating mode. This logic enables the heat pump to continue to operate in cooling mode if this valve fails.

The liquid receiver enables the charge of HFC 407C refrigerant to be optimised, particularly in cooling mode, in order to maintain a high COP value.

A Bi-Flow expansion valve ensures and enables a wide operating range with water inlet temperatures which can vary between 13 °C and 48 °C (according to the models) at the minimum or maximum flow-rate.

Ventilation section

The fan compartment contains the fan-motor assembly, the air/refrigerant coil and the condensate drain pan. The ventilation section is completely isolated from fan compartment by a thermally and acoustically insulated partition wall.

Wide removable panels provide access to the various internal components. The condensate drain pan has an anti-corrosion treatment and comprises a float-type safety device to prevent accidental overflow of the pan.

The sizes 19 to 72 are equipped with a 3 speed direct-drive fan motor with isothermal protection against overheating during operation.

The 3 fan speeds can be controlled either manually or automatically by the electronic management board of the unit. The fan-motor assembly is mounted on an independent chassis which is isolated from the casing by anti-vibration mounts.

Belt type drive with variable pitch pulley is supplied on models 96 and 120.

In the standard configuration, the fan blows **straight in line with the air intake**. The **perpendicular blowing** option is available on all units by switching the side panels and the fan-motor assembly.

Suspension kit

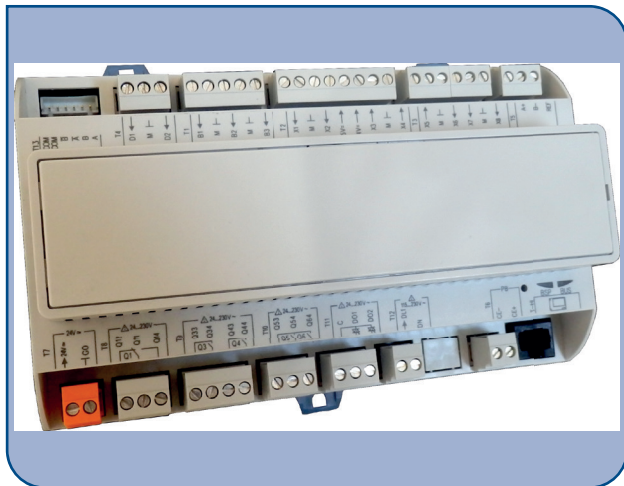
In order to facilitate installation on site, a suspension kit consisting of rubber blocks and washers is supplied with the units (except for models 96 and 120).

Optional features

- ✓ Wired main disconnect switch to be installed on the casing,
- ✓ Electric heater at discharge side,
- ✓ General alarms fault report,
- ✓ Motorized water valve supplied loose.

Control Features

All **SYSHRW** water source heat pumps are, in their standard version, equipped with a **Siemens** electronic control system which manages their operation and their safety devices.



The configuration of the **Siemens** electronic control enables **four different operating modes** for water source heat pumps by selecting the following systems :

- Thermodynamic cooling and heating operation;
- Thermodynamic cooling and heating operation or heating operation with an optional electric heater.

The units are configured and their parameters set with the help of the removable display **POL895** which is available as an option.

Anti-freeze safety function : this is provided by two temperature sensors. In cooling mode an "ICT" temperature sensor located in the finned coil protects the water source heat pump against accidental freezing.

In heating mode, the safety function is provided by an "LWT" minimum water outlet temperature sensor.

The automatic reset LP pressure switch completes the anti-freeze safety function by monitoring a minimum acceptable suction pressure to ensure correct operation of the compressor.

High temperature safety function : the "ICT & LWT" temperature sensors check that the condensation temperature at the finned coil and the water temperature at the outlet of the water/refrigerant heat exchanger do not exceed the authorised limits.

The automatic reset HP pressure switch completes the high temperature safety function.

Electric heater : **SYSHRW** water source heat pumps can be factory equipped with an optional in-duct air heater located at the fan outlet.

The electric heaters are also available in kit.

The electric heater function can, depending on the configuration of the **POL423** electronic control, be used in place of the thermodynamic heating as soon as the temperature in the water system drops below a minimum limit, or it can be used as an electric heating system on its own.

RCS remote control

An **RCS remote control** is supplied **as optional** in the electrical control box of the units.



It enables individually controlled operation or stand-alone regulation. The **RCS remote control** is ergonomically designed and discreet. It comprises a digital display and essential functions such as :

- On/Off,
- Selection of operating mode,
- Room temperature display,
- Fan speed selection for SYSHRW 19 to 72,
- Temperature set-point adjustment
- Alarm code display

Master/slaves control : the standard version of the **Siemens** electronic control enables operation in master/slaves regulation mode for **up to 15 water source heat pumps using a single RCS remote control**.

This configuration enables the installer to save on the purchase and wiring of equipment such as auxiliary relays and multi-wire cables between the various water source heat pumps. Only a bus cable with 2 twisted pairs is necessary between the master and slave units.

Models designation

SYSHRW 42 . H . 3750W . SYS . S1 . G2M1 . MBRT . RCS . SECT . SOND

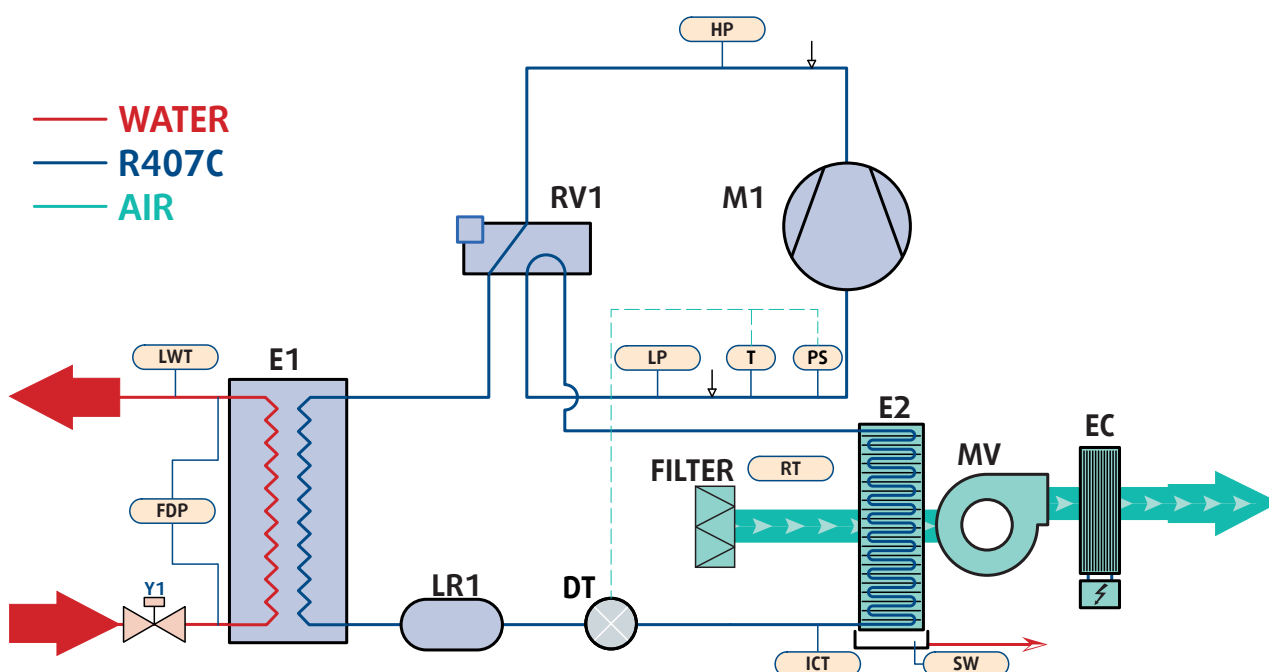
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

REP.	Description
① Size	SYSHRW 19 : size 19 SYSHRW 27 : size 27 SYSHRW 27HE : size 27 High Efficiency SYSHRW 30 : size 30 SYSHRW 30HE : size 30 High Efficiency SYSHRW 36 : size 36 SYSHRW 36HE : size 36 High Efficiency SYSHRW 42 : size 42 SYSHRW 42HE : size 42 High Efficiency SYSHRW 48 : size 48 SYSHRW 60 : size 60 SYSHRW 60HE : size 60 High Efficiency SYSHRW 72 : size 72 SYSHRW 72HE : size 72 High Efficiency SYSHRW 90 : size 90 SYSHRW 90HE : size 90 High Efficiency SYSHRW 120 : size 120
② Version	L : Cooling only H : Heat pump
③ Electric heater	Blank : Without heater 4500W : Capacity 4500W 2250W : Capacity 2250W 5400W : Capacity 5400W 3750W : Capacity 3750W 6500W : Capacity 6500W 7500W : Capacity 7500W 9000W : Capacity 9000W
④ Brand	SYS : Systemair
⑤ Air outlet	S1 : Frontal S2 : Lateral
⑥ Filter	G2M1 : G2M1 filter G3M1 : G3M1 filter
⑦ Communication protocol	Blank : Stand Alone MBRT : Modbus RTU BNMS : Bacnet MSTP BNIP : Bacnet IP LON : Bacnet IP
⑧ Remote control	Blank : Without remote control RCS : POL822
⑨ Main switch	Blank : Without main switch SECT : Main switch
⑩ Option	SOND : Room temperature sensor

Product Codes

Product codes	Description	Product codes	Description
376492	SYSHRW19.H.SYS.S1.G2M1.MBRT.RCS	376502	SYSHRW27HE.H.SYS.S1.G2M1.MBRT.RCS
376493	SYSHRW27.H.SYS.S1.G2M1.MBRT.RCS	376503	SYSHRW30HE.H.SYS.S1.G2M1.MBRT.RCS
376494	SYSHRW30.H.SYS.S1.G2M1.MBRT.RCS	376504	SYSHRW36HE.H.SYS.S1.G2M1.MBRT.RCS
373082	SYSHRW36.H.SYS.S1.G2M1.MBRT.RCS	376505	SYSHRW42HE.H.SYS.S1.G2M1.MBRT.RCS
376496	SYSHRW42.H.SYS.S1.G2M1.MBRT.RCS	376506	SYSHRW60HE.H.SYS.S1.G2M1.MBRT.RCS
376497	SYSHRW48.H.SYS.S1.G2M1.MBRT.RCS	376507	SYSHRW72.H.SYS.S1.G2M1.MBRT.RCS
376498	SYSHRW60.H.SYS.S1.G2M1.MBRT.RCS	376508	SYSHRW90.H.SYS.S1.G2M1.MBRT.RCS
376499	SYSHRW72.H.SYS.S1.G2M1.MBRT.RCS		
376500	SYSHRW72.H.SYS.S1.G2M1.MBRT.RCS		
376501	SYSHRW120.H.SYS.S1.G2M1.MBRT.RCS		

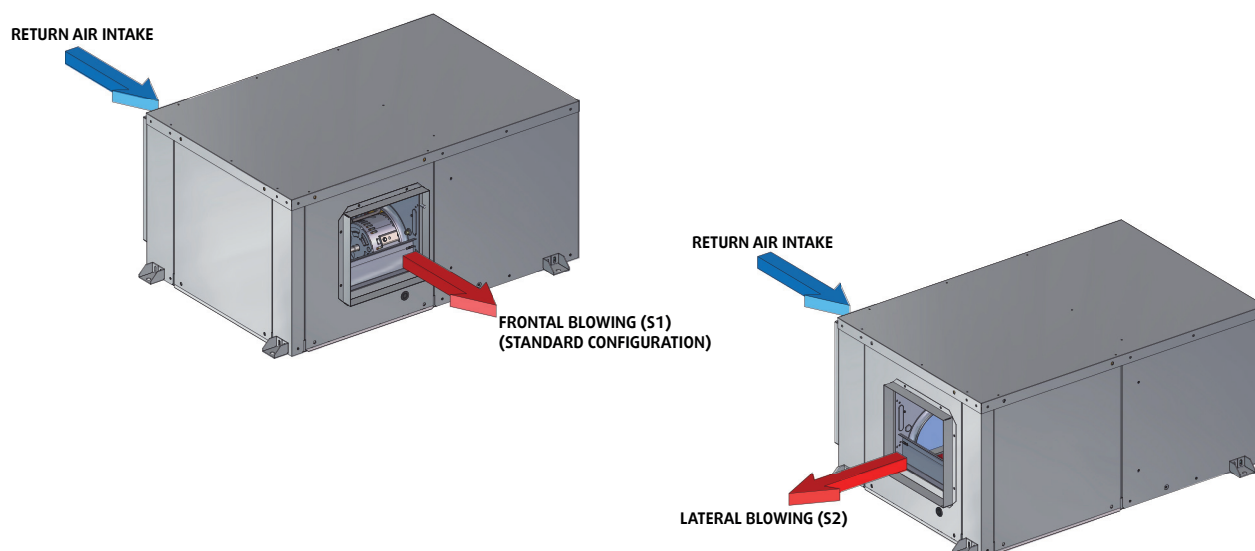
Refrigerant Flow Diagram



M1	Compressor
RV1	Cycle reversal valve
E1	Plate heat exchanger
DT	thermostatic expansion valve
E2	Finned coil
MV	Fan
EC	Electric heating coil (option)
↓	Schrader valve
HP	High pressure switch

T	Thermostatic expansion valve bulb
PS	Pressure fitting of thermostatic expansion valve
LP	Low pressure switch
LWT	Outlet water temperature sensor
FDP	Water circuit inlet / outlet differential pressostat
ICT:	Anti-freezing protection sensor
RT	Air temperature sensor
Y1	Water circuit valve (option)
SW	Condensed water level detector

Aeraulic configuration



Operating Limits

Temperature limits - SYSHRW 19 to 72

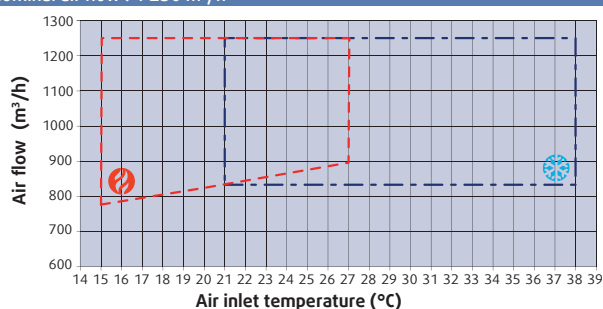
		Cooling	Heating
Return air temperature	Minimum	21 °C dry bulb / 15 °C wet bulb	15 °C
	Nominal*	27 °C dry bulb / 19 °C wet bulb	20 °C
	Maximum	38 °C dry bulb / 28 °C wet bulb	27 °C
Entering water temperature	Minimum	18 °C	13 °C
	Nominal*	30 °C	20 °C
	Maximum	44 °C	34 °C

* Nominal conditions according to EN 14511-2 standard.

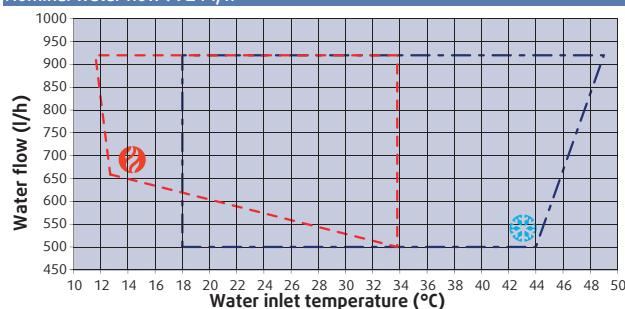
Flow limits - SYSHRW 19 to 72

SYSHRW 19

Nominal air flow : 1 250 m³/h

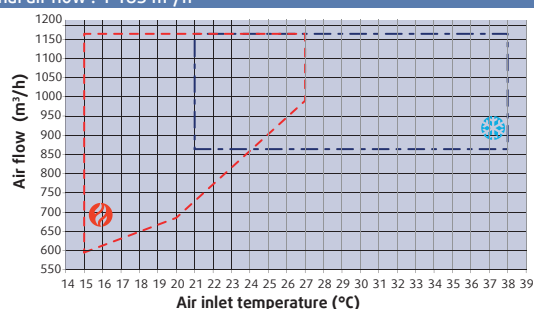


Nominal water flow : 921 l/h

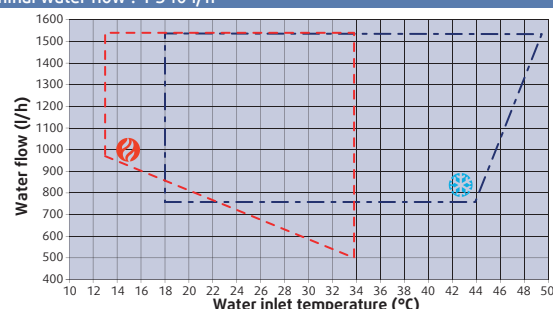


SYSHRW 27

Nominal air flow : 1 185 m³/h

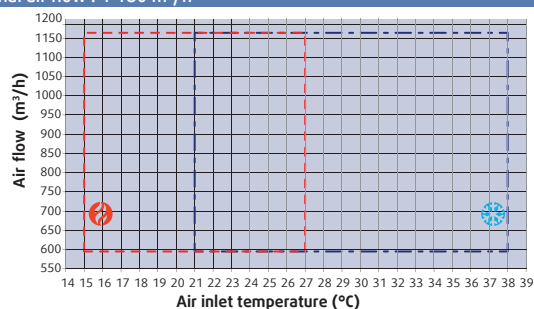


Nominal water flow : 1 540 l/h

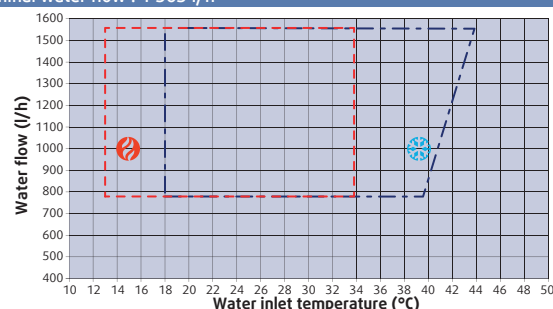


SYSHRW 27HE

Nominal air flow : 1 180 m³/h

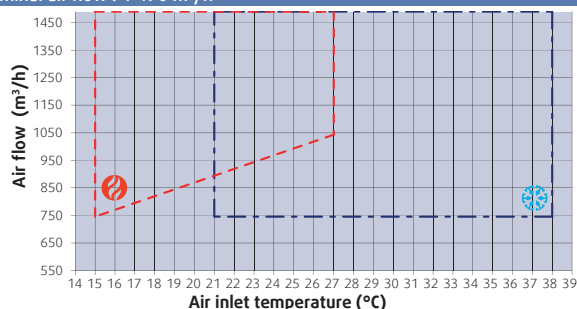


Nominal water flow : 1 563 l/h

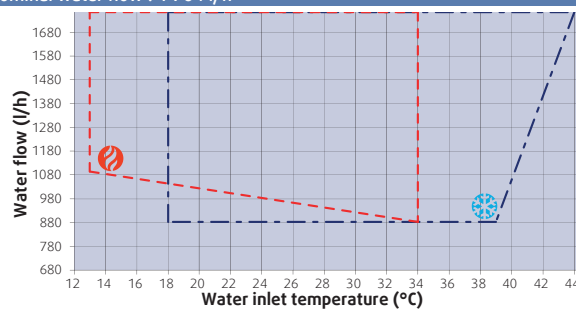


SYSHRW 30

Nominal air flow : 1 490 m³/h



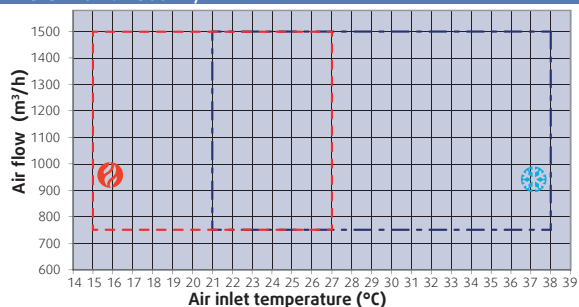
Nominal water flow : 1 764 l/h



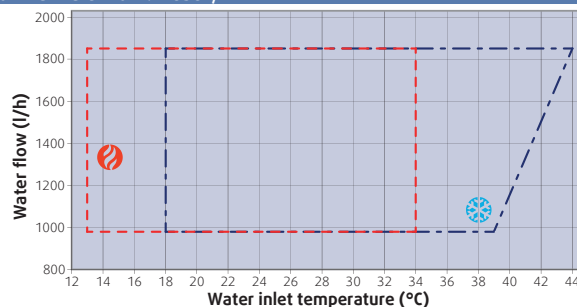
Operating Limits (continued)

SYSHRW 30HE

Nominal air flow : 1 500 m³/h

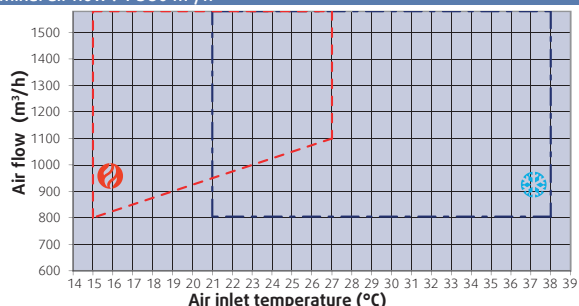


Nominal water flow : 1 838 l/h

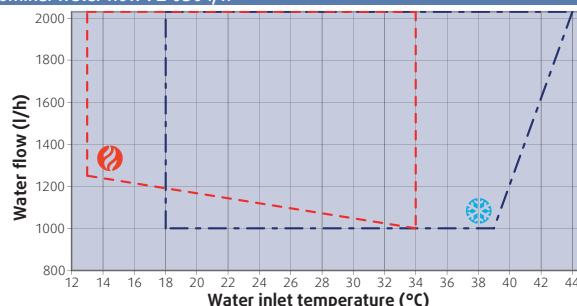


SYSHRW 36

Nominal air flow : 1 580 m³/h

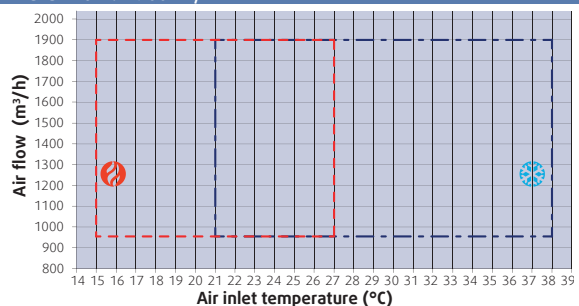


Nominal water flow : 2 030 l/h

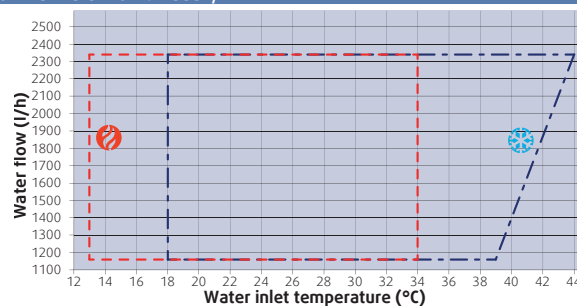


SYSHRW 36HE

Nominal air flow : 1 900 m³/h

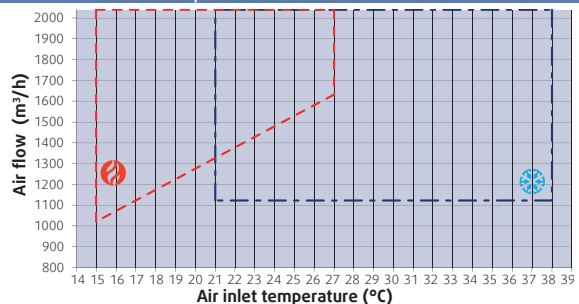


Nominal water flow : 2 335 l/h

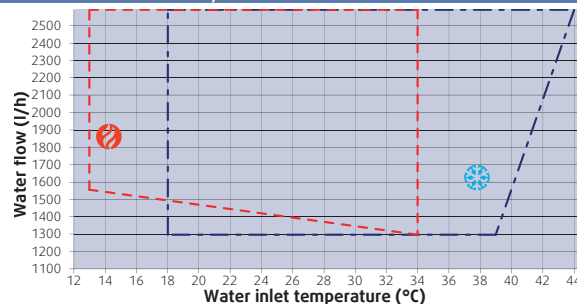


SYSHRW 42

Nominal air flow : 2 040 m³/h

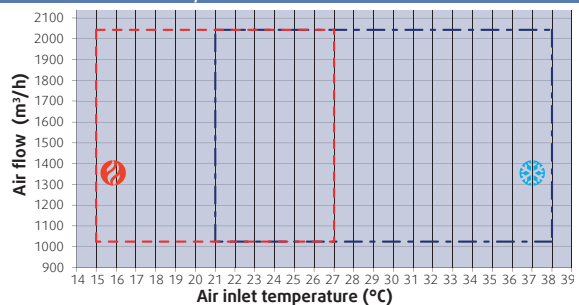


Nominal water flow : 2 592 l/h

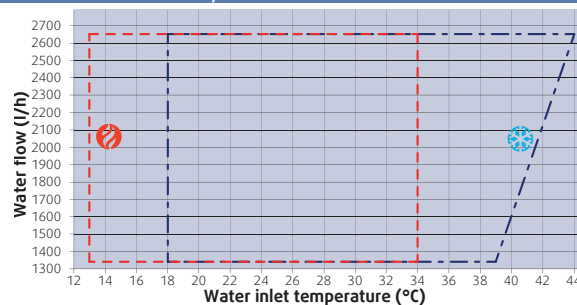


SYSHRW 42HE

Nominal air flow : 2 040 m³/h

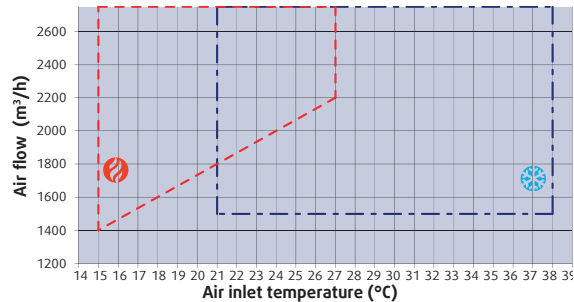


Nominal water flow : 2 641 l/h

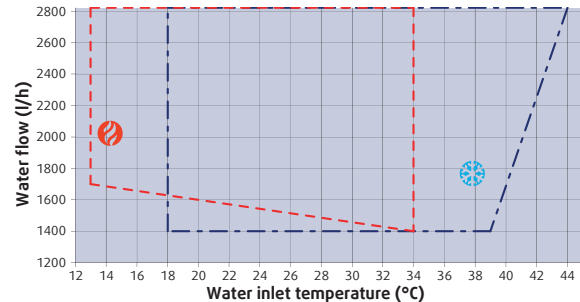


Operating Limits (continued)

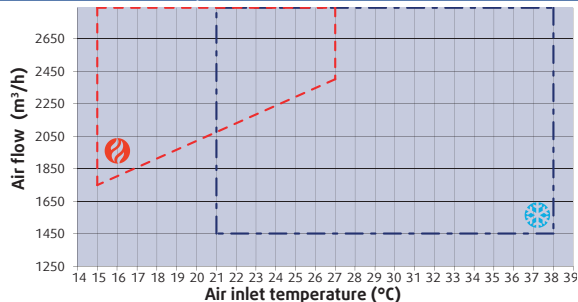
SYSHRW 48

Nominal air flow : 2 750 m³/h

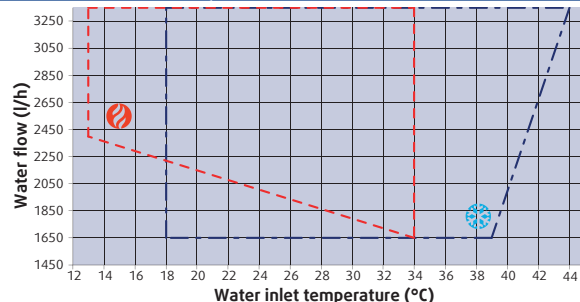
Nominal water flow : 2 822 l/h



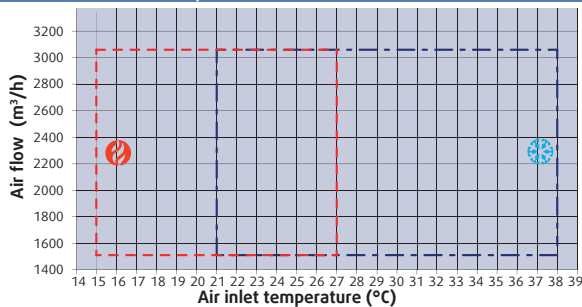
SYSHRW 60

Nominal air flow : 2 840 m³/h

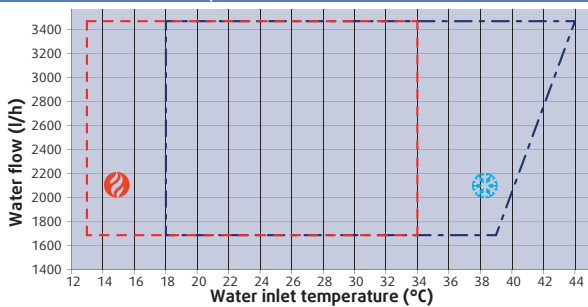
Nominal water flow : 3 348 l/h



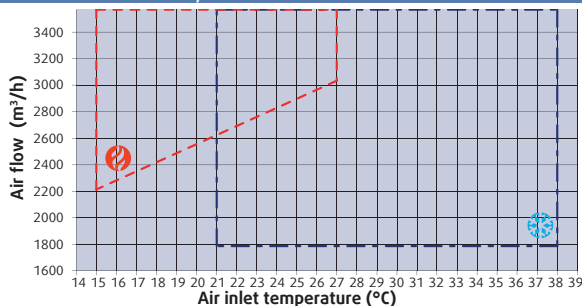
SYSHRW 60HE

Nominal air flow : 3 050 m³/h

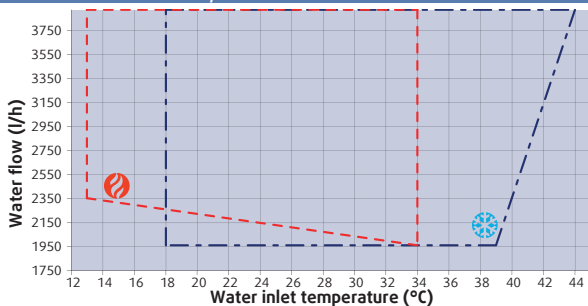
Nominal water flow : 3 458 l/h



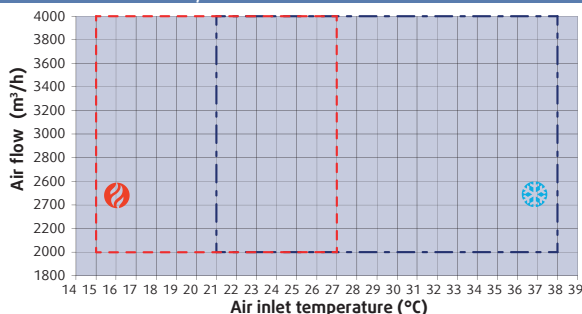
SYSHRW 72

Nominal air flow : 3 570 m³/h

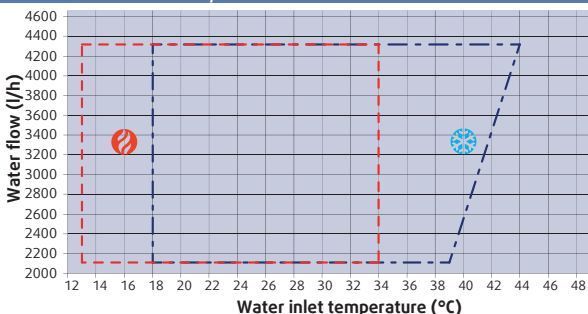
Nominal water flow : 3 924 l/h



SYSHRW 72HE

Nominal air flow : 4 000 m³/h

Nominal water flow : 4 319 l/h



Operating Limits (continued)

Temperature limits - SYSHRW 96 to 120

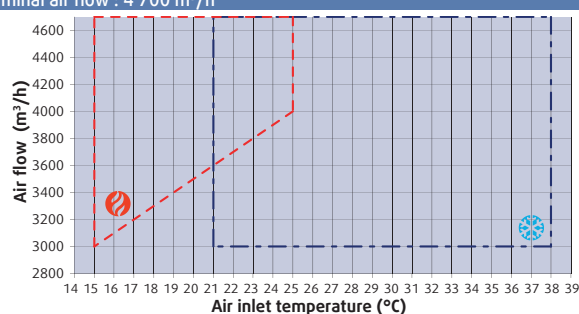
		Cooling	Heating
Return air temperature	Minimum	21 °C dry bulb / 15 °C wet bulb	15 °C
	Nominal*	27 °C dry bulb / 19 °C wet bulb	20 °C
	Maximum	38 °C dry bulb / 28 °C wet bulb	25 °C
Entering water temperature	Minimum	20 °C	13 °C
	Nominal*	30 °C	20 °C
	Maximum	48 °C	34 °C

* Nominal conditions according to EN 14511-2 standard.

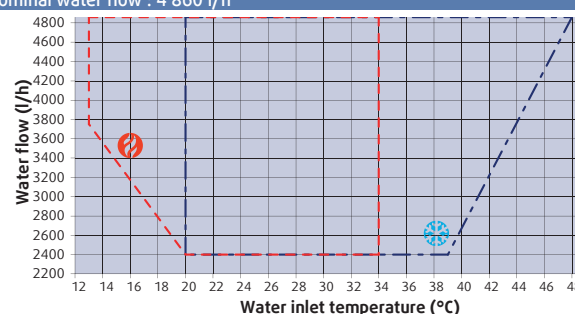
Flow limits - SYSHRW 96 to 120

SYSHRW 96

Nominal air flow : 4 700 m³/h

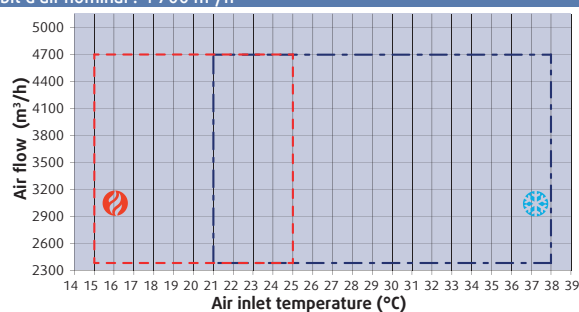


Nominal water flow : 4 860 l/h

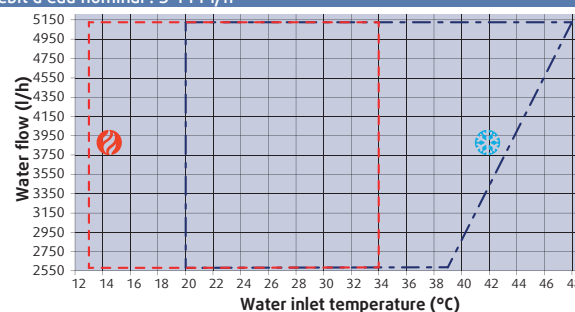


SYSHRW 96HE

Débit d'air nominal : 4 700 m³/h

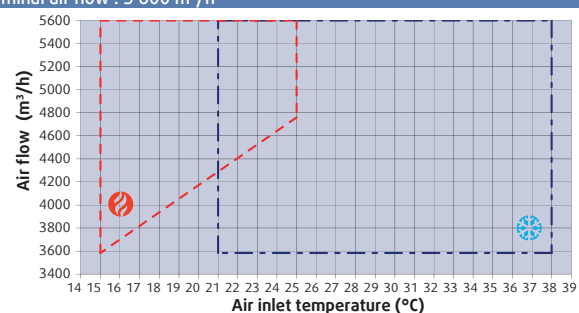


Débit d'eau nominal : 5 111 l/h

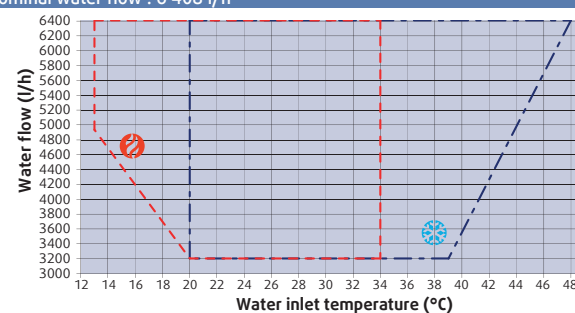


SYSHRW 120

Nominal air flow : 5 600 m³/h



Nominal water flow : 6 408 l/h



Physical Data

Models		19	27	27HE	30	30HE	36	36HE	
Total cooling capacities (1)		W	5 278	7 419	7 320	8 691	8 710	10 138	11 060
Sensible cooling capacities (1)		W	4 257	5 824	5 600	6 315	6 676	7 278	9 070
Total absorbed power (3)		W	1 557	2 118	1 981	2 658	2 357	3 044	2 909
EER according to EN14511			4.20	3.72	4.00	3.77	4.15	3.77	4.31
Total Heating capacities (2)		W	5 826	8 342	9 252	9 759	9 960	11 036	12 200
Total absorbed power (3)		W	1 611	2 332	2 382	2 983	2 475	3 460	3 203
COP according to EN14511			4.40	3.69	4.21	3.50	4.30	3.38	4.28
VENTILATION									
Air flow		m³/h	1 250	1 185	1 180	1 490	1 500	1 580	1 900
Available pressure		Pa	90	90	90	150	150	190	190
Fan absorbed power		W	450	450	450	950	950	950	950
Air filter - Number / Efficiency			2/G2M1						
HYDRAULIC CIRCUIT									
Water exchanger		Nbr	1						
Exchanger type			coaxial						
Water pressure max.		bar	16						
Cooling mode	Nominal water flow	l/h	921	1 540	1 563	1 764	1 838	2 030	2 335
	Water pressure drop at nominal flow	kPa	13	17	15.7	23	21	25	27.6
	Minimum water flow	l/h	460	770	782	882	900	1 015	1 168
Heating mode	Nominal water flow	l/h	921	1 540	1 563	1 764	1 838	2030	2 335
	Water pressure drop at nominal flow	kPa	13	17	15.7	23	21	25	27.6
	Minimum water flow	l/h	460	770	782	882	919	1 015	1 168
Water connections Input/output		pouces	3/4" Female gas thread						
Condensate outlet Ø		mm	19						
REFRIGERANT CIRCUIT									
Number of circuit		Nbr	1						
Compressor type			Rotary Scroll						
Refrigerant			R407C						
Load		g	1 160	1 483	2 534	1 594	1 950	1 950	3 200
ELECTRICAL DATA									
Electrical power supply			230/1/ 50		400V / 3~ N / 50Hz				
Max. current (4)		A	12.3	8.5	8.5	12.3	12.3	13	13
starting current (5)		A	35.4	35.4	35.4	46	46	52	52
Electric heating - Power (6)		W	1 500+750	3 750	3 750	3 750	3 750	4 500	4 500
ACOUSTICAL DATA									
Sound power level (7) (LS/MS/HS)		dB(A)	51/54/58	54/56/57	54/56/57	53/54/57	53/54/57	53/56/58	53/56/58
Sound pressure level (7)		dB(A)	30/33/37	33/35/36	33/35/36	32/33/36	32/33/36	32/35/37	32/35/37
NR (7) (LS/MS/HS)		dB(A)	34/37/40	33/34/37	33/34/37	33/35/38	33/35/38	34/37/41	34/37/41
WEIGHT									
Weight - Operating		kg	80	100		100		112	

- (1) Nominal cooling capacities based on : entering air temperature of 27 °C dry bulb, 19 °C wet bulb with entering water temperature of 30 °C.
- (2) Nominal heating capacities based on : entering air temperature of 20 °C dry bulb, 15 °C wet bulb with entering water temperature of 20 °C.
- (3) Absorbed power (compressor + fan) at nominal conditions.
- (4) Nominal currents are given at +/- 5%.
- (5) Starting currents are given at +/- 10%.
- (6) Electric heating coil is available optional.
- (7) Informative data, considering an hypothetical sound attenuation of the room and installation of 21dB.

Physical Data (continued)

Models		42	42HE	48	60	60HE	72	72HE	
Total cooling capacities (1)		W	11 366	12 500	12 965	14 344	16 700	17 174	20 600
Sensible cooling capacities (1)		W	8 849	9 542	10 051	10 988	13 900	13 536	17 699
Total absorbed power (3)		W	3 584	3 423	4 200	4 989	4 278	6 280	5 279
EER according to EN14511			3.44	4.00	4.03	3.23	4.44	3.26	4.74
Total Heating capacities (2)		W	14 422	14 450	14 904	16 147	18 800	21 500	22 601
Total absorbed power (3)		W	3 920	3 479	4 300	5 150	5 098	7 347	6 188
COP according to EN14511			3.84	4.36	4.25	3.33	4.20	3.15	4.23
VENTILATION									
Air flow		m³/h	2 040	2 040	2 750	2 840	3 050	3 570	4 000
Available pressure		Pa	115	115	190	160	160	220	220
Fan absorbed power		W	950	950	1 500	1 500	1 500	1 500	736
Air filter - Number / Efficiency			2/G2M1						
HYDRAULIC CIRCUIT									
Water exchanger		Nbr	1						
Exchanger type			coaxial						
Water pressure max.		bar	16						
Cooling mode	Nominal water flow	l/h	2 592	2 641	2 822	3 348	3 458	3 924	4 319
	Water pressure drop at nominal flow	kPa	33	30	34	40	30	61	45
	Minimum water flow	l/h	1 296	1 321	1 411	1 692	1 729	1 944	2 160
Heating mode	Nominal water flow	l/h	2 592	2 641	2 822	3 348	3 458	3 924	4 319
	Water pressure drop at nominal flow	kPa	33	30	34	40	30	61	45
	Minimum water flow	l/h	1 296	1 321	1 411	1 692	1 729	1 944	2 160
Water connections Input/output		pouces	3/4" Female gas thread				1" 1/4 Male gas thread	3/4" Female gas thread	1" 1/4 Male gas thread
Condensate outlet Ø		mm	19						22
REFRIGERANT CIRCUIT									
Number of circuit		Nbr	1						
Compressor type			Scroll						
Refrigerant			R407C						
Load		g	3 200	2 800	3 200	3 200	3 400	2 700	3 800
ELECTRICAL DATA									
Electrical power supply			400V / 3~ N / 50Hz						
Max. current (4)		A	16	16	18	19	19	22.5	22.5
starting current (5)		A	56	56	58	73.5	73.5	108.5	108.5
Electric heating - Power (6)		W	5 400	5 400	6 500	7 500	7 500	9 000	9 000
ACOUSTICAL DATA									
Sound power level (7) (LS/MS/HS)		dB(A)	54/56/58	54/56/58	55/59/63	55/59/63	55/59/63	57/60/63	55/59/62
Sound pressure level (7)		dB(A)	33/35/37	33/35/37	34/38/42	34/38/42	34/38/42	36/39/42	34/38/41
NR (7) (LS/MS/HS)		dB(A)	36/40/43	36/40/43	39/43/46	39/43/46	39/43/46	36/39/44	36/39/44
WEIGHT									
Weight - Operating		kg	133		140	144		149	

- (1) Nominal cooling capacities based on : entering air temperature of 27 °C dry bulb, 19 °C wet bulb with entering water temperature of 30 °C.
- (2) Nominal heating capacities based on : entering air temperature of 20 °C dry bulb, 15 °C wet bulb with entering water temperature of 20 °C.
- (3) Absorbed power (compressor + fan) at nominal conditions.
- (4) Nominal currents are given at +/- 5%.
- (5) Starting currents are given at +/- 10%.
- (6) Electric heating coil is available optional.
- (7) Informative data, considering an hypothetical sound attenuation of the room and installation of 21dB.

Physical Data (continued)

Models		96	96HE	120	
Total cooling capacities (1)		W	21 743	24 500	29 951
Sensible cooling capacities (1)		W	17 986	19 499	24 413
Total absorbed power (3)		W	6 317	5 954	8 547
EER according to EN14511			3.84	4.61	4.21
Total Heating capacities (2)		W	26 637	28 501	38 109
Total absorbed power (3)		W	7 895	7 115	10 224
COP according to EN14511			3.54	4.46	4.25
VENTILATION					
Air flow		m³/h	4 700	4 700	5 600
Available pressure		Pa	120	120	120
Fan absorbed power		W	1 100	1 100	1 500
Air filter - Number / Efficiency			2/G2M1		
HYDRAULIC CIRCUIT					
Water exchanger		Nbr	1		
Exchanger type			coaxial		
Water pressure max.		bar	16		
Cooling mode	Nominal water flow	l/h	4 860	5 111	6 408
	Water pressure drop at nominal flow	kPa	55	55.3	80.5
	Minimum water flow	l/h	2 448	2 556	3 204
Heating mode	Nominal water flow	l/h	4 860	5 111	6 408
	Water pressure drop at nominal flow	kPa	55	55.3	80.5
	Minimum water flow	l/h	2 448	2 556	3 204
Water connections Input/output		pouces	1" 1/4 - Male gas thread		
Condensate outlet Ø		mm	22		
REFRIGERANT CIRCUIT					
Number of circuit		Nbr	1		
Compressor type			Scroll		
Refrigerant			R407C		
Load		g	5 100	5 100	5 100
ELECTRICAL DATA					
Electrical power supply			400V / 3~ N / 50Hz		
Max. current (4)		A	19.4	19.4	23.9
starting current (5)		A	98.5	98.5	122.3
Electric heating - Power (6)		W	13 000	13 000	13 000
ACOUSTICAL DATA					
Sound power level (7)		dB(A)	70/69/68	70/69/68	72/69/70
Sound pressure level (7)		dB(A)	49/48/47	49/48/47	51/48/49
NR (7)		dB(A)	56/54/52	56/54/52	56/53/50
WEIGHT					
Weight - Operating		kg	253	259	262

(1) Nominal cooling capacities based on : entering air temperature of 27 °C dry bulb, 19 °C wet bulb with entering water temperature of 30 °C.

(2) Nominal heating capacities based on : entering air temperature of 20 °C dry bulb, 15 °C wet bulb with entering water temperature of 20 °C.

(3) Absorbed power (compressor + fan) at nominal conditions.

(4) Nominal currents are given at +/- 5%.

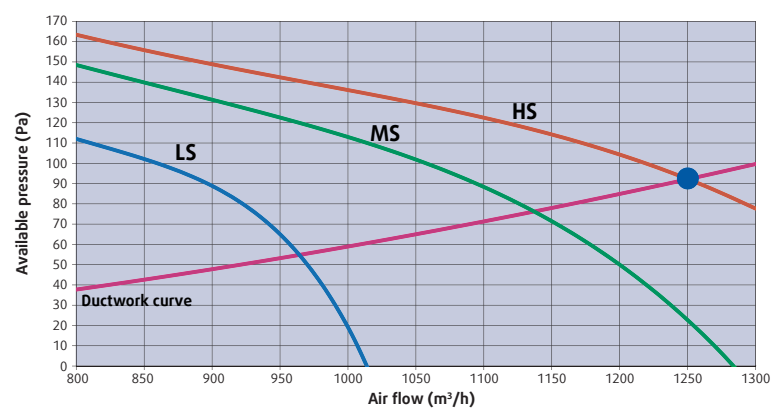
(5) Starting currents are given at +/- 10%.

(6) Electric heating coil is available optional.

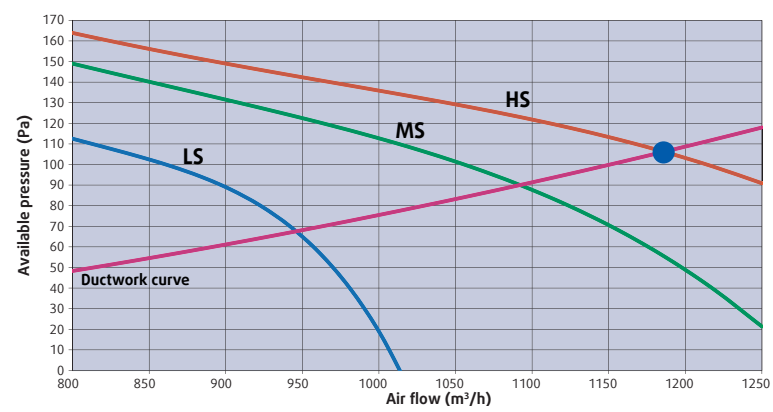
(7) Informative data, considering an hypothetical sound attenuation of the room and installation of 21dB.

Air Flow Data

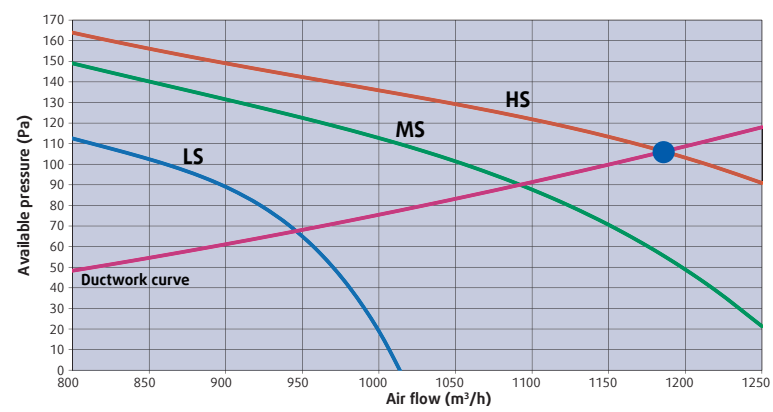
SYSHRW 19



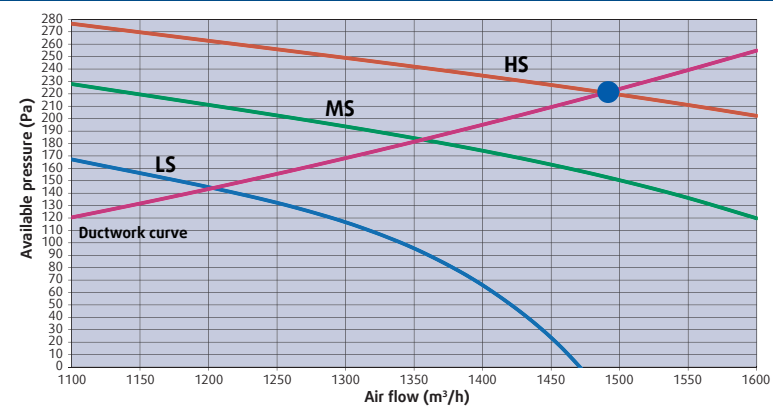
SYSHRW 27



SYSHRW 27HE

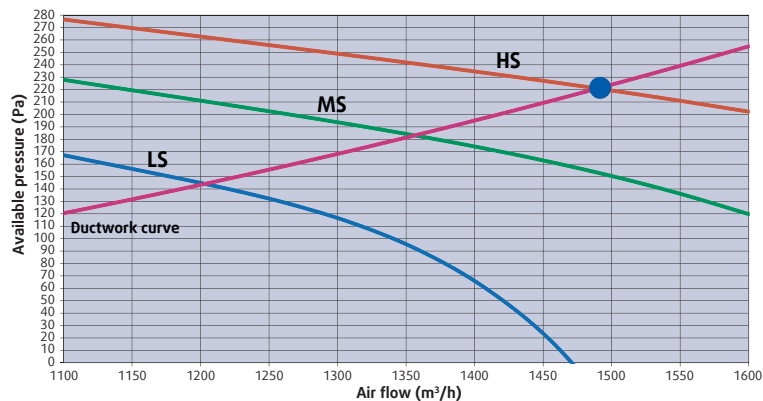


SYSHRW 30

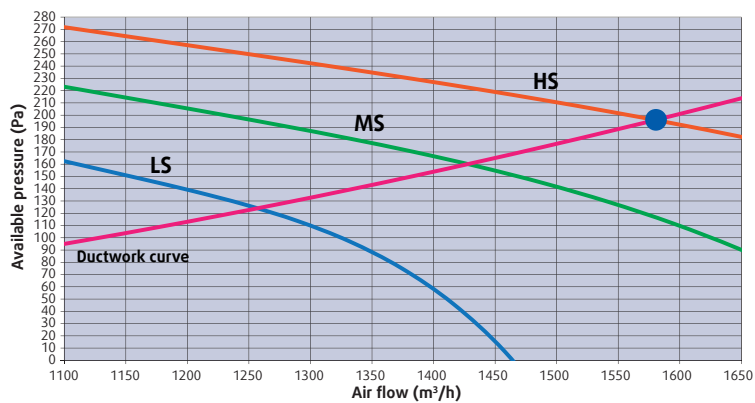


Air Flow Data (continued)

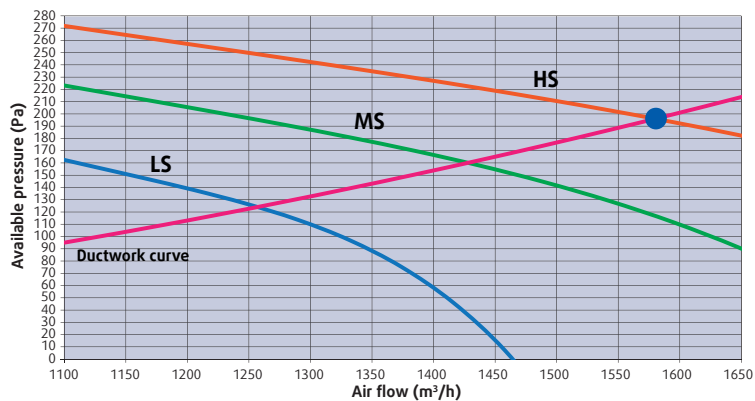
SYSHRW 30HE



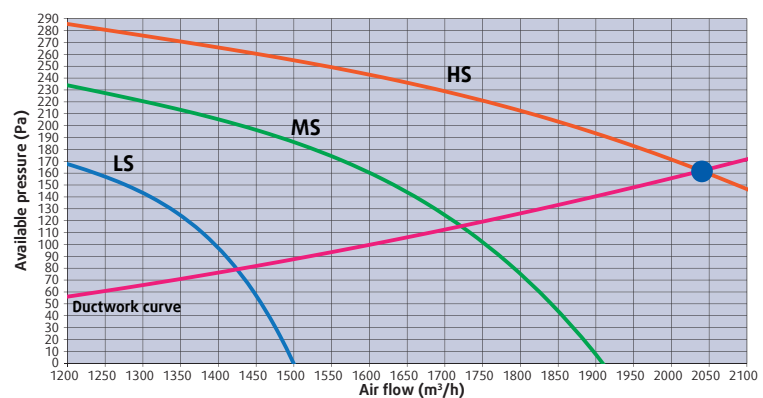
SYSHRW 36



SYSHRW 36HE

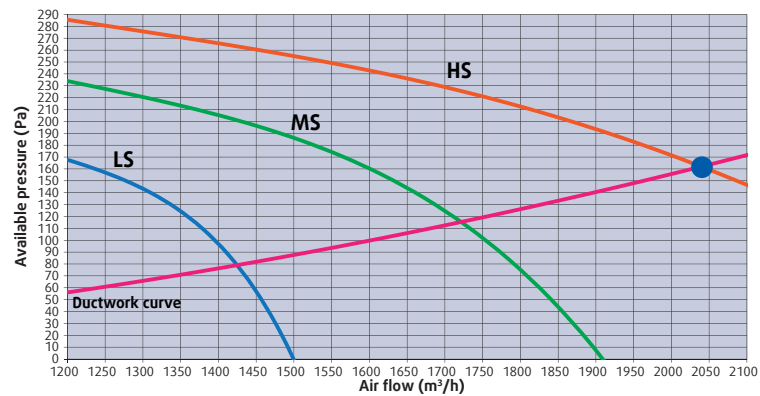


SYSHRW 42

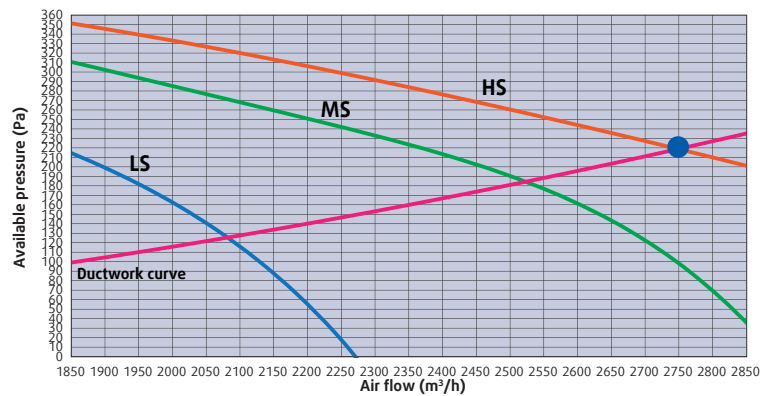


Air Flow Data (continued)

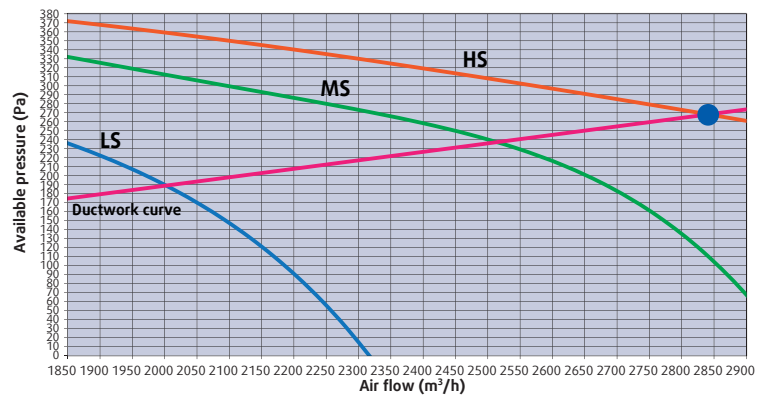
SYSHRW 42HE



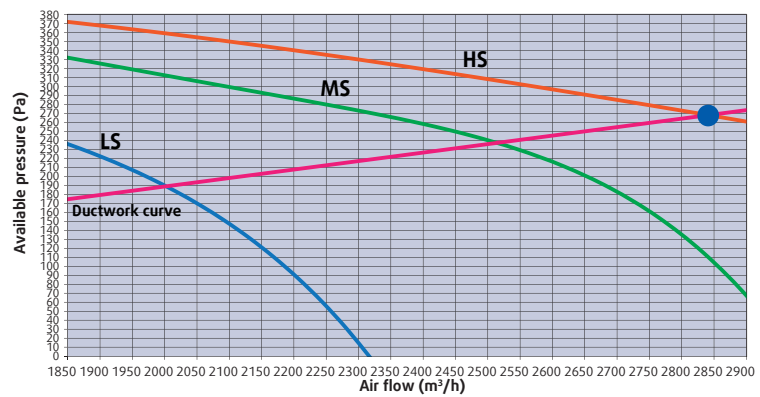
SYSHRW 48



SYSHRW 60

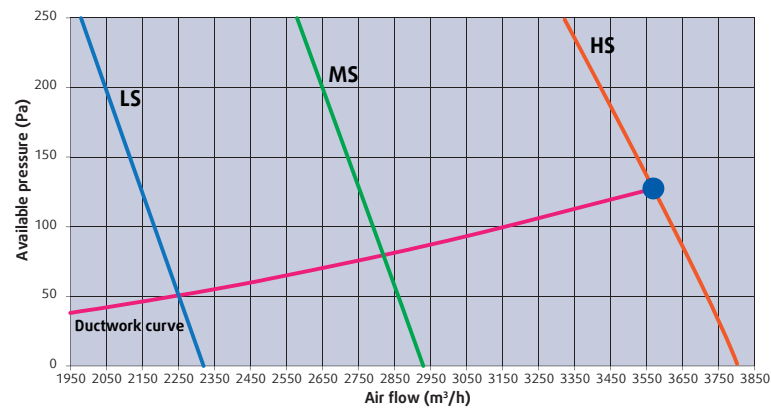


SYSHRW 60HE

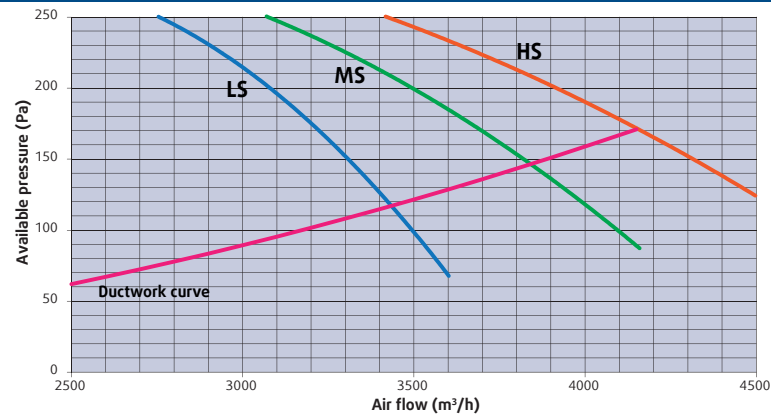


Air Flow Data (continued)

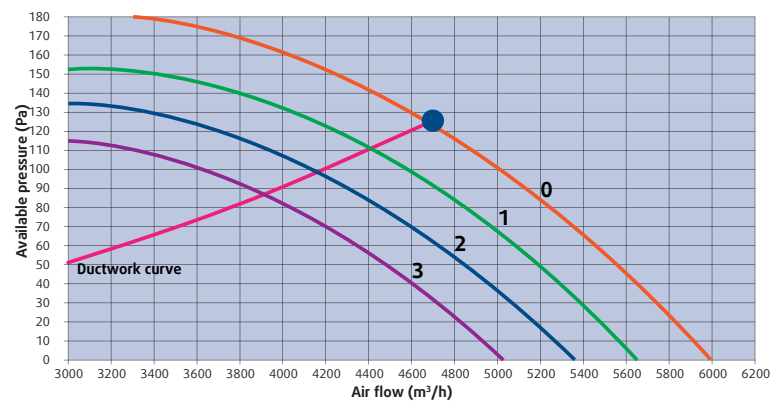
SYSHRW 72



SYSHRW 72HE



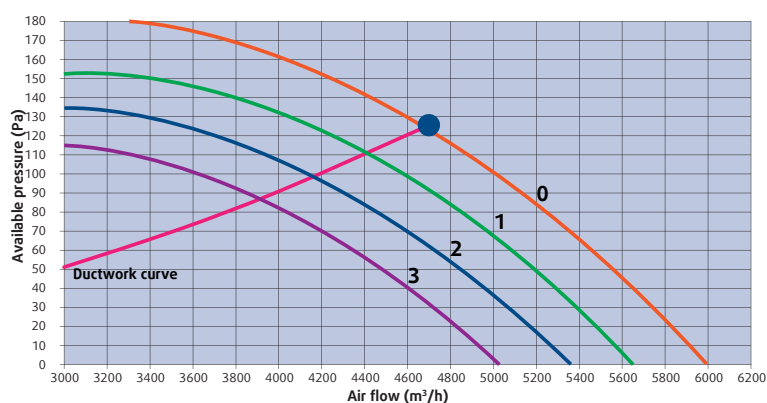
SYSHRW 96



- 0 : Pulley closed
- 1 : Pulley opened 1 turn
- 2 : Pulley opened 2 turns
- 3 : Pulley opened 3 turns

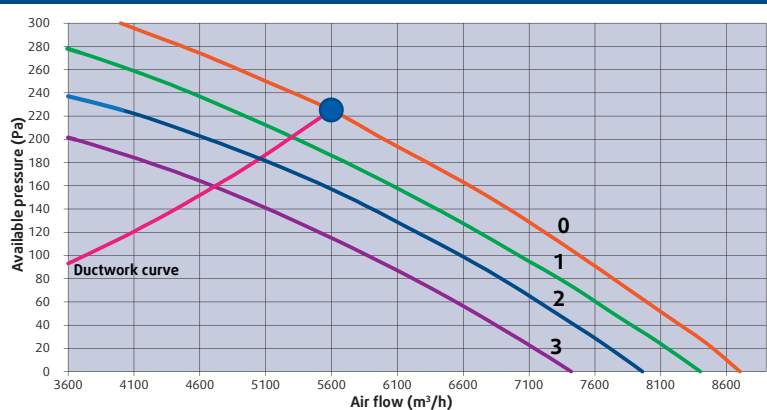
Air Flow Data (continued)

SYSHRW 96HE



- 0 : Pulley closed
- 1 : Pulley opened 1 turn
- 2 : Pulley opened 2 turns
- 3 : Pulley opened 3 turns

SYSHRW 120



- 0 : Pulley closed
- 1 : Pulley opened 1 turn
- 2 : Pulley opened 2 turns
- 3 : Pulley opened 3 turns

Airflow Correction Factors

	Percent of nominal airflow						
	85	90	95	100	105	110	115
Total cooling capacity	0.972	0.982	0.993	1.00	1.007	1.010	1.013
Sensible cooling capacity	0.926	0.948	0.974	1.00	1.027	1.055	1.066
Power input - Cooling	0.977	0.984	0.993	1.00	1.011	1.018	1.028
Heating capacity	0.967	0.978	0.990	1.00	1.009	1.017	1.024
Power input - Heating	1.009	1.006	1.003	1.00	0.997	0.995	0.993

Acoustical Data

Sound power levels Lw - SYSHRW 19

Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	
LS	Lw radiated inlet + casing (Config. A)	48.9	50.4	52.2	54.9	51.3	40.4	59.1
	Lw radiated casing only (Config. B)	44.2	43.1	44.7	45.7	41.5	30.1	51.1
MS	Lw radiated inlet + casing (Config. A)	51.4	53.8	55.0	57.7	52.7	43.3	61.7
	Lw radiated casing only (Config. B)	47.1	46.6	47.4	49.1	45.5	35.5	54.4
HS	Lw radiated inlet + casing (Config. A)	53.9	57.1	57.8	60.6	54.0	46.2	64.5
	Lw radiated casing only (Config. B)	50.0	50.2	50.1	52.5	49.5	40.9	57.7

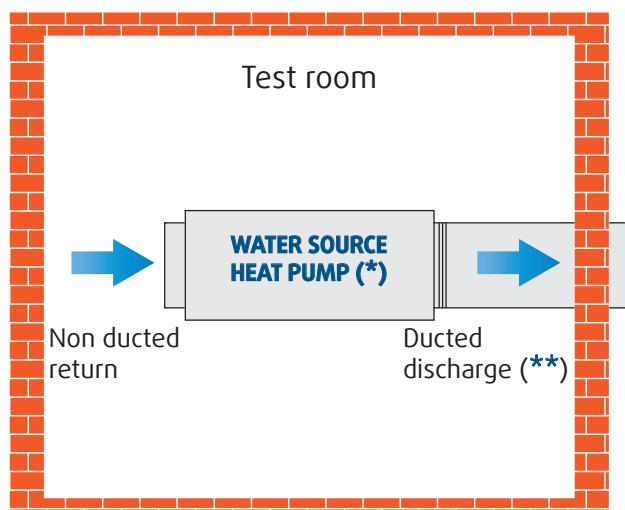
Sound power levels Lw - SYSHRW 27

Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	
LS	Lw radiated inlet + casing (Config. A)	51.5	50.5	50.1	53.9	51.7	41.9	58.8
	Lw radiated casing only (Config. B)	46.8	47.1	45.9	48.8	44.5	33.4	53.9
MS	Lw radiated inlet + casing (Config. A)	51.7	52.6	49.7	55.2	53.6	44.1	60.1
	Lw radiated casing only (Config. B)	47.4	47.9	48.1	51.4	47.9	37.7	55.9
HS	Lw radiated inlet + casing (Config. A)	54.3	54.2	53.1	57.5	56.1	46.7	62.5
	Lw radiated casing only (Config. B)	48.4	48.5	49.4	53.4	49.8	40.2	57.4

Sound power levels Lw - SYSHRW 30

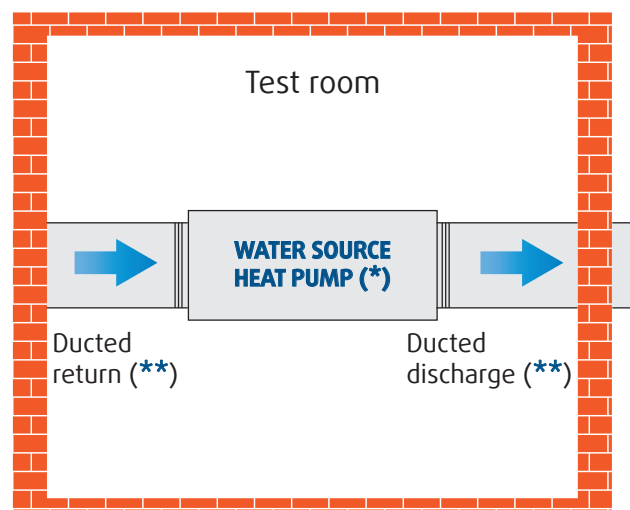
Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	
LS	Lw radiated inlet + casing (Config. A)	45.6	51.1	52.3	53.9	47.0	43.2	58.2
	Lw radiated casing only (Config. B)	45.4	45.7	45.0	48.4	40.8	29.3	52.7
MS	Lw radiated inlet + casing (Config. A)	48.2	51.7	55.2	56.2	50.2	43.2	60.3
	Lw radiated casing only (Config. B)	46.3	44.7	48.3	49.9	43.0	32.7	54.2
HS	Lw radiated inlet + casing (Config. A)	50.5	54.3	58.1	59.0	54.0	48.1	63.3
	Lw radiated casing only (Config. B)	48.4	48.4	51.5	51.3	46.4	38.7	56.7

Configuration A



- (*) Unit suspended at 1 metre from ground.
 (**) 1.5 metre long acoustic duct.

Configuration B



- (*) Unit suspended at 1 metre from ground.
 (**) 1.5 metre long acoustic duct.

Acoustical Data (continued)

Sound power levels Lw - SYSHRW 36

Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	
LS	Lw radiated inlet + casing (Config. A)	49.4	50.4	54.4	55.0	49.3	40.7	59.5
	Lw radiated casing only (Config. B)	46.9	44.6	47.1	46.9	40.1	30.1	52.8
MS	Lw radiated inlet + casing (Config. A)	52.6	52.6	56.3	58.3	54.5	47.2	62.6
	Lw radiated casing only (Config. B)	48.4	47.1	50.5	50.0	45.6	37.2	55.7
HS	Lw radiated inlet + casing (Config. A)	53.2	56.1	58.7	61.6	58.1	50.9	65.6
	Lw radiated casing only (Config. B)	49.5	50.5	52.7	52.0	49.9	42.1	58.2

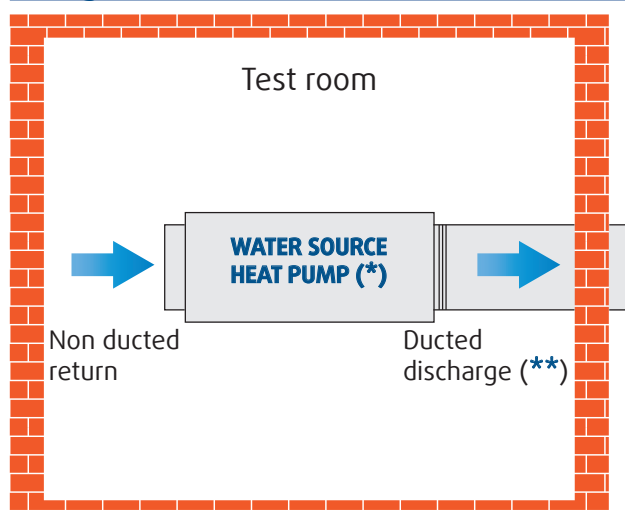
Sound power levels Lw - SYSHRW 42

Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	
LS	Lw radiated inlet + casing (Config. A)	49.5	55.7	56.5	56.6	53.0	46.5	62.1
	Lw radiated casing only (Config. B)	45.7	48.4	48.6	47.4	41.6	36.7	54.0
MS	Lw radiated inlet + casing (Config. A)	52.6	55.8	58.7	60.7	58.8	52.7	65.3
	Lw radiated casing only (Config. B)	47.1	49.3	51.1	49.6	46.2	40.1	56.1
HS	Lw radiated inlet + casing (Config. A)	53.7	57.6	60.8	63.6	60.7	54.2	67.6
	Lw radiated casing only (Config. B)	47.7	51.2	52.9	52.6	49.2	43.6	58.3

Sound power levels Lw - SYSHRW 48 and 60

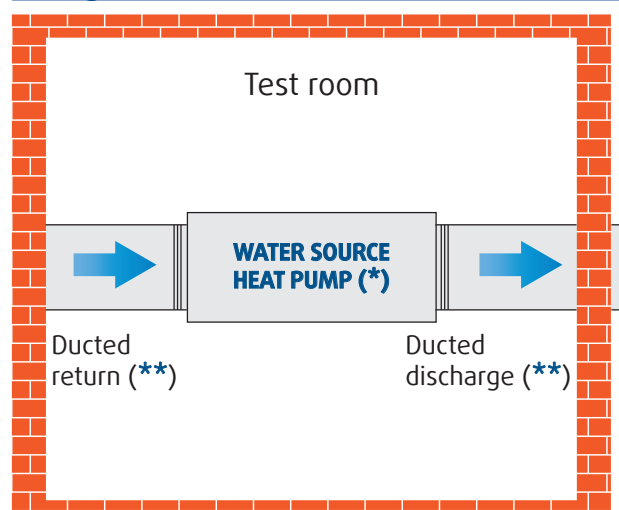
Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	
LS	Lw radiated inlet + casing (Config. A)	50.8	55.3	60.1	59.1	57.7	49.3	64.7
	Lw radiated casing only (Config. B)	46.1	48.4	51.1	48.6	44.8	35.3	55.4
MS	Lw radiated inlet + casing (Config. A)	54.4	58.8	62.8	63.6	62.2	54.8	68.6
	Lw radiated casing only (Config. B)	48.3	51.7	53.2	52.8	49.5	43.2	58.6
HS	Lw radiated inlet + casing (Config. A)	56.8	62.6	65.0	66.9	65.4	58.5	71.6
	Lw radiated casing only (Config. B)	52.2	57.3	57.1	56.9	52.9	46.5	62.9

Configuration A



- (*) Unit suspended at 1 metre from ground.
 (**) 1.5 metre long acoustic duct.

Configuration B



- (*) Unit suspended at 1 metre from ground.
 (**) 1.5 metre long acoustic duct.

Acoustical Data (continued)

Sound power levels Lw - SYSHRW 72

Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	
LS	Lw radiated inlet + casing (Config. A)	54.8	54.5	56.8	56.0	53.0	46.6	62.3
	Lw radiated casing only (Config. B)	52.7	49.7	51.3	49.2	44.4	38.2	57.3
MS	Lw radiated inlet + casing (Config. A)	56.7	58.3	60.1	59.8	56.9	52.4	65.8
	Lw radiated casing only (Config. B)	53.5	51.7	53.7	53.6	49.4	41.1	59.7
HS	Lw radiated inlet + casing (Config. A)	57.4	62.7	64.5	65.1	61.8	58.9	70.3
	Lw radiated casing only (Config. B)	54.4	55.7	56.5	58.6	53.8	46.7	63.2

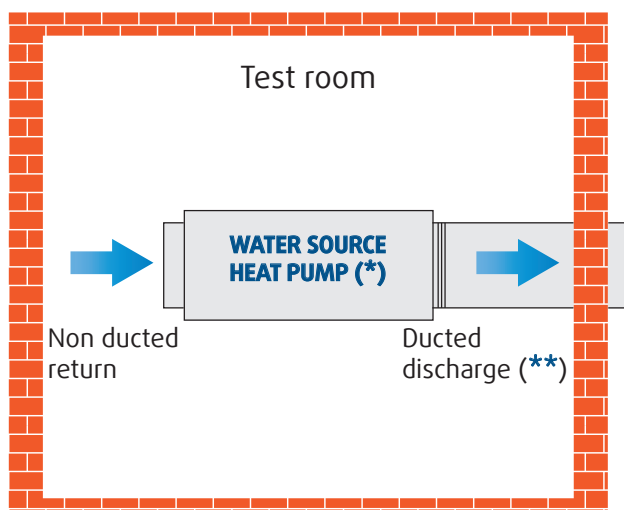
Sound power levels Lw - SYSHRW 96

Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	
0 turn	Lw radiated inlet + casing (Config. A)	62.7	67.2	71.9	76.8	71.5	69.1	79.7
	Lw radiated casing only (Config. B)	59.1	62.1	63.4	67.2	60.9	54.8	70.6
1 turn	Lw radiated inlet + casing (Config. A)	62.0	65.9	70.5	75.0	70.8	68.3	78.3
	Lw radiated casing only (Config. B)	58.5	61.2	62.7	66.4	60.1	54.6	69.8
2 turns	Lw radiated inlet + casing (Config. A)	62.4	65.2	70.8	74.9	70.0	67.3	78.0
	Lw radiated casing only (Config. B)	57.8	60.4	62.0	65.1	58.6	52.7	68.7
3 turns	Lw radiated inlet + casing (Config. A)	60.3	64.2	69.9	73.1	68.6	65.5	76.5
	Lw radiated casing only (Config. B)	56.4	59.4	61.2	64.3	57.7	51.7	67.8

Sound power levels Lw - SYSHRW 120

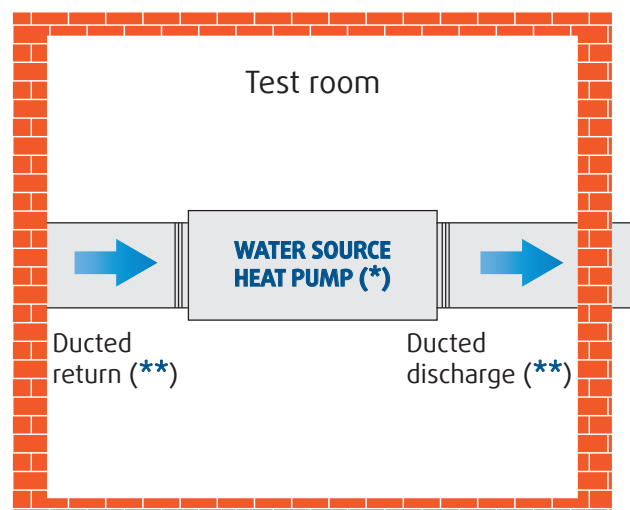
Speeds	Type	Frequency						Global dB(A)
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	
0 turn	Lw radiated inlet + casing (Config. A)	68.1	70.9	73.9	76.5	73.6	67.0	80.6
	Lw radiated casing only (Config. B)	62.9	64.9	66.2	67.1	61.0	53.3	72.0
1 turn	Lw radiated inlet + casing (Config. A)	66.5	69.2	73.1	74.3	71.9	65.2	79.0
	Lw radiated casing only (Config. B)	62.9	64.9	65.6	66.7	60.1	52.5	71.6
2 turns	Lw radiated inlet + casing (Config. A)	65.8	68.1	72.2	73.3	70.8	63.7	78.0
	Lw radiated casing only (Config. B)	62.2	62.3	63.4	63.8	57.2	49.5	69.3
3 turns	Lw radiated inlet + casing (Config. A)	65.9	66.6	68.4	71.3	67.7	60.3	75.6
	Lw radiated casing only (Config. B)	61.0	61.2	64.0	64.5	57.8	51.4	69.4

Configuration A



- (*) Unit suspended at 1 metre from ground.
 (**) 1.5 metre long acoustic duct.

Configuration B



- (*) Unit suspended at 1 metre from ground.
 (**) 1.5 metre long acoustic duct.

Cooling Performance Data - SYSHRW 19

Nominal airflow 1 250 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	921	13.0	24/17	5 222	4 246	1 062	6 284	4.92
			27/19	5 600	4 465	1 059	6 659	5.29
			30/21	6 014	4 686	1 050	7 064	5.73
	691	7.3	24/17	5 178	4 223	1 082	6 260	4.79
			27/19	5 561	4 451	1 081	6 642	5.14
			30/21	5 964	4 649	1 075	7 039	5.55
	460	3.3	24/17	5 095	4 178	1 125	6 220	4.53
			27/19	5 460	4 393	1 129	6 589	4.84
			30/21	5 856	4 587	1 129	6 985	5.19
27	921	13.0	24/17	5 045	4 109	1 191	6 236	4.24
			27/19	5 400	4 330	1 193	6 593	4.53
			30/21	5 735	4 507	1 186	6 921	4.84
	691	7.3	24/17	5 004	4 077	1 213	6 217	4.13
			27/19	5 357	4 297	1 217	6 574	4.40
			30/21	5 689	4 477	1 213	6 902	4.69
	460	3.3	24/17	4 910	4 022	1 261	6 171	3.89
			27/19	5 252	4 234	1 268	6 520	4.14
			30/21	5 573	4 438	1 272	6 845	4.38
30	921	13.0	24/17	4 926	4 035	1 253	6 179	3.93
			27/19	5 278	4 257	1 257	6 535	4.20
			30/21	5 614	4 444	1 254	6 868	4.48
	691	7.3	24/17	4 934	4 021	1 276	6 210	3.87
			27/19	5 235	4 247	1 282	6 517	4.08
			30/21	5 560	4 429	1 282	6 842	4.34
	460	3.3	24/17	4 805	3 979	1 324	6 129	3.63
			27/19	5 137	4 194	1 335	6 472	3.85
			30/21	5 434	4 357	1 341	6 775	4.05
32	921	13.0	24/17	4 851	3 994	1 296	6 147	3.74
			27/19	5 200	4 220	1 300	6 500	4.00
			30/21	5 526	4 402	1 300	6 826	4.25
	691	7.3	24/17	4 810	3 982	1 317	6 127	3.65
			27/19	5 146	4 094	1 325	6 471	3.88
			30/21	5 441	4 337	1 327	6 768	4.10
	460	3.3	24/17	4 728	3 941	1 366	6 094	3.46
			27/19	5 050	4 149	1 379	6 429	3.66
			30/21	5 362	4 329	1 387	6 749	3.87
38	921	13.0	24/17	4 651	3 855	1 433	6 084	3.25
			27/19	4 973	4 078	1 441	6 414	3.45
			30/21	5 317	4 267	1 457	6 774	3.65
	691	7.3	24/17	4 601	3 815	1 457	6 058	3.16
			27/19	4 882	4 029	1 468	6 350	3.33
			30/21	5 258	4 250	1 474	6 732	3.57
	460	3.3	24/17	4 501	3 782	1 507	6 008	2.99
			27/19	4 845	4 001	1 522	6 367	3.18
			30/21	5 147	4 196	1 536	6 683	3.35
40	921	13.0	24/17	4 589	3 828	1 480	6 069	3.10
			27/19	4 871	4 022	1 488	6 359	3.27
			30/21	5 193	4 197	1 494	6 687	3.48
	691	7.3	24/17	4 551	3 798	1 503	6 054	3.03
			27/19	4 827	3 988	1 515	6 342	3.19
			30/21	5 090	4 227	1 516	6 606	3.36
	460	3.3	24/17	4 463	3 752	1 552	6 015	2.88
			27/19	4 715	3 922	1 571	6 286	3.00
			30/21	5 015	4 132	1 578	6 593	3.18

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 19

Nominal airflow 1 250 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	921	13.0	16	5 066	1 140	3 926	4.44
			20	5 006	1 218	3 788	4.11
			27	4 973	1 372	3 601	3.62
	691	7.3	16	4 942	1 124	3 818	4.40
			20	4 888	1 201	3 687	4.07
			27	4 781	1 339	3 442	3.57
16	921	13.0	16	5 425	1 186	4 239	4.57
			20	5 357	1 267	4 090	4.23
			27	5 235	1 415	3 820	3.70
	691	7.3	16	5 290	1 170	4 120	4.52
			20	5 228	1 250	3 978	4.18
			27	5 103	1 392	3 711	3.67
	460	3.3	16	5 039	1 138	3 901	4.43
			20	4 988	1 217	3 771	4.10
			27	4 887	1 357	3 530	3.60
20	921	13.0	16	5 911	1 239	4 672	4.77
			20	5 826	1 325	4 501	4.40
			27	5 699	1 484	4 215	3.84
	691	7.3	16	5 745	1 221	4 524	4.71
			20	5 688	1 310	4 378	4.34
			27	5 558	1 463	4 095	3.80
	460	3.3	16	5 472	1 192	4 280	4.59
			20	5 412	1 274	4 138	4.25
			27	5 304	1 425	3 879	3.72
27	921	13.0	16	6 747	1 320	5 427	5.11
			20	6 649	1 416	5 233	4.70
			27	6 469	1 585	4 884	4.08
	691	7.3	16	6 542	1 302	5 240	5.02
			20	6 456	1 396	5 060	4.62
			27	6 309	1 568	4 741	4.02
	460	3.3	16	6 191	1 272	4 919	4.87
			20	6 120	1 363	4 757	4.49
			27	5 995	1 526	4 469	3.93
30	921	13.0	16	7 142	1 344	5 798	5.31
			20	7 032	1 443	5 589	4.87
			27	6 846	1 623	5 223	4.22
	691	7.3	16	6 926	1 331	5 595	5.20
			20	6 826	1 428	5 398	4.78
			27	6 660	1 605	5 055	4.15
	460	3.3	16	6 545	1 302	5 243	5.03
			20	6 463	1 396	5 067	4.63
			27	6 332	1 569	4 763	4.04
32	921	13.0	16	7 412	1 356	6 056	5.47
			20	7 306	1 463	5 843	4.99
			27	7 106	1 647	5 459	4.31
	691	7.3	16	7 191	1 347	5 844	5.34
			20	7 100	1 452	5 648	4.89
			27	6 920	1 632	5 288	4.24
	460	3.3	16	6 779	1 319	5 460	5.14
			20	6 707	1 420	5 287	4.72
			27	6 559	1 595	4 964	4.11

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 27

Nominal airflow 1 185 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	1 540	17.0	24/17	7 224	5 809	1 479	8 702	4.89
			27/19	7 791	6 108	1 479	9 270	5.27
			30/21	8 338	6 366	1 471	9 809	5.67
	1 155	9.6	24/17	7 177	5 787	1 511	8 688	4.75
			27/19	7 738	6 083	1 497	9 235	5.17
			30/21	8 277	6 321	1 510	9 787	5.48
	770	4.3	24/17	7 091	5 737	1 578	8 669	4.49
			27/19	7 617	6 008	1 590	9 207	4.79
			30/21	8 129	6 252	1 595	9 724	5.10
27	1 540	17.0	24/17	7 065	5 621	1 738	8 802	4.07
			27/19	7 594	5 921	1 740	9 334	4.36
			30/21	8 153	6 198	1 736	9 889	4.70
	1 155	9.6	24/17	7 009	5 580	1 772	8 781	3.96
			27/19	7 531	5 883	1 780	9 311	4.23
			30/21	8 081	6 147	1 780	9 861	4.54
	770	4.3	24/17	6 906	5 532	1 847	8 753	3.74
			27/19	7 400	5 803	1 862	9 262	3.97
			30/21	7 905	6 061	1 873	9 778	4.22
30	1 540	17.0	24/17	6 896	5 525	1 850	8 745	3.73
			27/19	7 419	5 824	1 854	9 273	4.00
			30/21	7 912	6 032	1 854	9 766	4.27
	1 155	9.6	24/17	6 848	5 490	1 888	8 736	3.63
			27/19	7 354	5 769	1 898	9 253	3.87
			30/21	7 847	6 007	1 902	9 749	4.13
	770	4.3	24/17	6 741	5 426	1 965	8 706	3.43
			27/19	7 231	5 716	1 981	9 213	3.65
			30/21	7 746	5 956	1 995	9 741	3.88
32	1 540	17.0	24/17	6 786	5 459	1 929	8 715	3.52
			27/19	7 291	5 741	1 938	9 229	3.76
			30/21	7 790	5 988	1 939	9 729	4.02
	1 155	9.6	24/17	6 731	5 419	1 967	8 698	3.42
			27/19	7 236	5 719	1 979	9 215	3.66
			30/21	7 717	5 956	1 983	9 700	3.89
	770	4.3	24/17	6 629	5 359	2 045	8 674	3.24
			27/19	7 117	5 651	2 063	9 179	3.45
			30/21	7 590	5 886	2 077	9 667	3.65
38	1 540	17.0	24/17	6 456	5 258	2 006	8 462	3.22
			27/19	6 946	5 547	2 021	8 967	3.44
			30/21	7 429	5 777	2 024	9 453	3.67
	1 155	9.6	24/17	6 409	5 223	2 046	8 455	3.13
			27/19	6 880	5 496	2 060	8 940	3.34
			30/21	7 392	5 774	2 070	9 462	3.57
	770	4.3	24/17	6 300	5 158	2 123	8 422	2.97
			27/19	6 766	5 433	2 151	8 917	3.15
			30/21	7 234	5 689	2 167	9 401	3.34
40	1 540	17.0	24/17	6 342	5 190	2 094	8 436	3.03
			27/19	6 818	5 472	2 105	8 923	3.24
			30/21	7 331	5 730	2 116	9 447	3.47
	1 155	9.6	24/17	6 285	5 147	2 133	8 417	2.95
			27/19	6 760	5 430	2 147	8 907	3.15
			30/21	7 235	5 690	2 160	9 396	3.35
	770	4.3	24/17	6 185	5 089	2 210	8 395	2.80
			27/19	6 644	5 385	2 236	8 880	2.97
			30/21	7 139	5 644	2 257	9 396	3.16

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 27

Nominal airflow 1 185 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	1 540	17.0	16	7 845	1 827	6 018	4.29
			20	7 728	1 979	5 749	3.91
			27	7 674	2 274	5 400	3.37
	1 155	9.6	16	7 644	1 808	5 836	4.23
			20	7 519	1 954	5 564	3.85
			27	7 314	2 228	5 085	3.28
16	1 540	17.0	16	8 286	1 868	6 418	4.44
			20	8 151	2 022	6 129	4.03
			27	7 997	2 304	5 693	3.47
	1 155	9.6	16	8 042	1 840	6 202	4.37
			20	7 915	1 994	5 922	3.97
			27	7 693	2 274	5 419	3.38
	770	4.3	16	7 612	1 798	5 814	4.23
			20	7 494	1 945	5 549	3.85
			27	7 321	2 224	5 097	3.29
20	1 540	17.0	16	8 492	1 924	6 568	4.41
			20	8 342	2 079	6 263	4.01
			27	8 080	2 361	5 719	3.42
	1 155	9.6	16	8 220	1 899	6 321	4.33
			20	8 086	2 052	6 034	3.94
			27	7 845	2 333	5 511	3.36
	770	4.3	16	7 740	1 849	5 892	4.19
			20	7 629	2 001	5 628	3.81
			27	7 438	2 281	5 158	3.26
27	1 540	17.0	16	10 010	2 028	7 982	4.94
			20	9 740	2 192	7 547	4.44
			27	9 555	2 500	7 055	3.82
	1 155	9.6	16	9 679	2 009	7 670	4.82
			20	9 542	2 165	7 377	4.41
			27	9 268	2 468	6 799	3.75
	770	4.3	16	9 126	1 952	7 174	4.68
			20	9 012	2 117	6 895	4.26
			27	8 768	2 404	6 363	3.65
30	1 540	17.0	16	10 022	2 052	7 970	4.88
			20	9 859	2 169	7 690	4.55
			27	9 579	2 517	7 062	3.81
	1 155	9.6	16	9 689	2 025	7 664	4.79
			20	9 560	2 189	7 371	4.37
			27	9 290	2 486	6 804	3.74
	770	4.3	16	9 136	1 976	7 160	4.62
			20	9 028	2 138	6 890	4.22
			27	8 805	2 427	6 378	3.63
32	1 540	17.0	16	10 383	2 075	8 308	5.00
			20	10 191	2 230	7 961	4.57
			27	9 896	2 545	7 351	3.89
	1 155	9.6	16	10 024	2 046	7 978	4.90
			20	9 871	2 212	7 659	4.46
			27	9 651	2 516	7 135	3.84
	770	4.3	16	9 437	1 998	7 439	4.72
			20	9 314	2 161	7 153	4.31
			27	9 100	2 462	6 638	3.70

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 27HE

Nominal airflow 1 180 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	1 563	15.7	24/17	7 193	5 282	1 387	8 580	5.19
			27/19	7 686	5 645	1 401	9 087	5.49
			30/21	8 255	6 062	1 422	9 677	5.81
	1 172	9.3	24/17	7 125	5 232	1 408	8 532	5.06
			27/19	7 613	5 591	1 422	9 035	5.35
			30/21	8 176	6 005	1 443	9 619	5.67
	782	4	24/17	7 007	5 146	1 484	8 490	4.72
			27/19	7 487	5 498	1 499	8 986	4.99
			30/21	8 041	5 905	1 521	9 562	5.29
27	1 563	15.7	24/17	6 975	5 272	1 637	8 612	4.26
			27/19	7 453	5 633	1 653	9 106	4.51
			30/21	8 004	6 050	1 678	9 682	4.77
	1 172	9.3	24/17	6 909	5 222	1 661	8 570	4.16
			27/19	7 382	5 579	1 678	9 060	4.4
			30/21	7 928	5 992	1 703	9 632	4.65
	1 172	9.3	24/17	6 794	5 135	1 751	8 545	3.88
			27/19	7 260	5 487	1 769	9 029	4.1
			30/21	7 797	5 893	1 796	9 592	4.34
30	1 563	15.7	24/17	6 850	5 241	1 734	8 584	3.95
			27/19	7 320	5 600	1 751	9 071	4.18
			30/21	7 862	6 014	1 777	9 639	4.42
	1172	9.3	24/17	6 785	5 191	1 760	8 545	3.86
			27/19	7 250	5 547	1 777	9 028	4.08
			30/21	7 787	5 957	1 804	9 591	4.32
	782	4	24/17	6 673	5 105	1 855	8 528	3.6
			27/19	7 130	5 455	1 874	9 004	3.81
			30/21	7 658	5 858	1 902	9 560	4.03
32	1 563	15.7	24/17	6 757	5 211	1 795	8 552	3.77
			27/19	7 220	5 568	1 813	9 033	3.98
			30/21	7 755	5 980	1 840	9 595	4.21
	1 172	9.3	24/17	6 693	5 161	1 821	8 515	3.67
			27/19	7 152	5 515	1 840	8 992	3.89
			30/21	7 681	5 923	1 867	9 549	4.11
	782	4	24/17	6 582	5 076	1 920	8 502	3.43
			27/19	7 033	5 423	1 940	8 973	3.63
			30/21	7 554	5 825	1 969	9 522	3.84
38	1 563	15.7	24/17	6 428	5 075	1 961	8 389	3.28
			27/19	6 869	5 423	1 981	8 850	3.47
			30/21	7 377	5 824	2 010	9 388	3.67
	1 172	9.3	24/17	6 367	5 027	1 990	8 358	3.2
			27/19	6 804	5 371	2 010	8 814	3.38
			30/21	7 307	5 769	2 041	9 348	3.58
	782	4	24/17	6 262	4 944	2 098	8 360	2.98
			27/19	6 691	5 282	2 119	8 810	3.16
			30/21	7 186	5 673	2 151	9 337	3.34
40	1 563	15.7	24/17	6 302	5 014	2 011	8 313	3.13
			27/19	6 734	5 358	2 031	8 766	3.32
			30/21	7 233	5 754	2 062	9 294	3.51
	1 172	9.3	24/17	6 243	4 967	2 041	8 284	3.06
			27/19	6 670	5 307	2 062	8 732	3.24
			30/21	7 164	5 700	2 093	9 257	3.42
	782	4	24/17	6 139	4 884	2 152	8 291	2.85
			27/19	6 560	5 219	2 173	8 733	3.02
			30/21	7 045	5 605	2 206	9 251	3.19

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 27HE

Nominal airflow 1 180 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	1 563	15.7	16	8 640	1 861	6 778	4.64
			20	8 512	2 001	6 511	4.25
			27	8 342	2 302	6 040	3.62
	1 172	9.3	16	8 424	1 833	6 590	4.59
			20	8 299	1 971	6 328	4.21
			27	8 133	2 267	5 866	3.59
	782	4	16	7 949	1 787	6 162	4.45
			20	7 831	1 921	5 910	4.08
			27	7 674	2 210	5 465	3.47
16	1 563	15.7	16	8 921	1 923	6 997	4.64
			20	8 789	2 068	6 721	4.25
			27	8 613	2 378	6 235	3.62
	1 172	9.3	16	8 698	1 895	6 803	4.59
			20	8 569	2 037	6 532	4.21
			27	8 398	2 343	6 055	3.58
	782	4	16	8 207	1 846	6 361	4.44
			20	8 086	1 985	6 100	4.07
			27	7 924	2 283	5 641	3.47
20	1 563	15.7	16	9 391	2 001	7 390	4.69
			20	9 252	2 152	7 100	4.3
			27	9 067	2 475	6 592	3.66
	1 172	9.3	16	9 156	1 971	7 185	4.64
			20	9 021	2 120	6 901	4.26
			27	8 840	2 438	6 403	3.63
	782	4	16	8 640	1 921	6 718	4.5
			20	8 512	2 066	6 446	4.12
			27	8 342	2 376	5 966	3.51
27	1 563	15.7	16	10 477	2 124	8 352	4.93
			20	10 322	2 284	8 038	4.52
			27	10 115	2 627	7 489	3.85
	1 172	9.3	16	10 215	2 092	8 122	4.88
			20	10 064	2 250	7 814	4.47
			27	9 863	2 587	7 275	3.81
	782	4	16	9 639	2 039	7 599	4.73
			20	9 496	2 193	7 303	4.33
			27	9 306	2 522	6 785	3.69
30	1 563	15.7	16	11 044	2 172	8 873	5.09
			20	10 881	2 335	8 546	4.66
			27	10 664	2 685	7 978	3.97
	1 172	9.3	16	10 768	2 139	8 629	5.03
			20	10 609	2 300	8 309	4.61
			27	10 397	2 645	7 752	3.93
	782	4	16	10 161	2 085	8 076	4.87
			20	10 011	2 242	7 769	4.47
			27	9 810	2 578	7 233	3.81
32	1 563	15.7	16	11 457	2 202	9 255	5.2
			20	11 288	2 367	8 920	4.77
			27	11 062	2 722	8 340	4.06
	1 172	9.3	16	11 171	2 168	9 002	5.15
			20	11 006	2 332	8 674	4.72
			27	10 785	2 681	8 104	4.02
	782	4	16	10 540	2 113	8 427	4.99
			20	10 385	2 273	8 112	4.57
			27	10 177	2 613	7 564	3.89

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 30

Nominal airflow 1 490 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	1 764	23	24/17	8 462	6 299	1 729	10 191	4.89
			27/19	9 127	6 623	1 729	10 856	5.28
			30/21	9 768	6 903	1 720	11 488	5.68
	1 321	14	24/17	8 408	6 275	1 767	10 175	4.76
			27/19	9 065	6 596	1 750	10 815	5.18
			30/21	9 696	6 855	1 766	11 462	5.49
	882	7	24/17	8 307	6 221	1 845	10 152	4.50
			27/19	8 923	6 515	1 859	10 782	4.80
			30/21	9 523	6 780	1 865	11 388	5.11
27	1 764	23	24/17	8 276	6 095	2 032	10 308	4.07
			27/19	8 896	6 421	2 035	10 931	4.37
			30/21	9 551	6 721	2 030	11 581	4.70
	1 321	14	24/17	8 211	6 051	2 072	10 283	3.96
			27/19	8 822	6 379	2 082	10 904	4.24
			30/21	9 467	6 666	2 081	11 548	4.55
	882	7	24/17	8 090	5 999	2 160	10 250	3.75
			27/19	8 669	6 293	2 177	10 846	3.98
			30/21	9 260	6 573	2 190	11 450	4.23
30	1 764	23	24/17	8 078	5 991	2 163	10 241	3.73
			27/19	8 691	6 315	2 168	10 859	4.01
			30/21	9 268	6 541	2 168	11 436	4.27
	1 321	14	24/17	8 022	5 953	2 208	10 230	3.63
			27/19	8 615	6 256	2 220	10 835	3.88
			30/21	9 192	6 514	2 224	11 416	4.13
	882	7	24/17	7 897	5 884	2 298	10 195	3.44
			27/19	8 471	6 198	2 317	10 788	3.66
			30/21	9 074	6 459	2 333	11 407	3.89
32	1 764	23	24/17	7 949	5 920	2 256	10 205	3.52
			27/19	8 541	6 226	2 266	10 807	3.77
			30/21	9 126	6 493	2 267	11 393	4.03
	1 321	14	24/17	7 885	5 876	2 300	10 185	3.43
			27/19	8 477	6 202	2 314	10 791	3.66
			30/21	9 040	6 459	2 319	11 359	3.90
	882	7	24/17	7 766	5 811	2 391	10 157	3.25
			27/19	8 337	6 128	2 412	10 749	3.46
			30/21	8 891	6 383	2 429	11 320	3.66
38	1 764	23	24/17	7 563	5 702	2 346	9 909	3.22
			27/19	8 137	6 015	2 363	10 500	3.44
			30/21	8 703	6 265	2 367	11 070	3.68
	1 321	14	24/17	7 508	5 664	2 392	9 900	3.14
			27/19	8 060	5 960	2 409	10 469	3.35
			30/21	8 659	6 261	2 421	11 080	3.58
	882	7	24/17	7 380	5 593	2 482	9 862	2.97
			27/19	7 926	5 892	2 515	10 441	3.15
			30/21	8 474	6 169	2 534	11 008	3.34
40	1 764	23	24/17	7 429	5 628	2 449	9 878	3.03
			27/19	7 987	5 934	2 462	10 449	3.24
			30/21	8 588	6 214	2 474	11 062	3.47
	1 321	14	24/17	7 362	5 581	2 494	9 856	2.95
			27/19	7 919	5 888	2 511	10 430	3.15
			30/21	8 476	6 170	2 526	11 002	3.36
	882	7	24/17	7 246	5 518	2 584	9 830	2.80
			27/19	7 783	5 839	2 615	10 398	2.98
			30/21	8 363	6 120	2 639	11 002	3.17

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 30

Nominal airflow 1 490 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	1 764	23	16	9 177	2 228	6 949	4.12
			20	9 041	2 414	6 627	3.75
			27	8 978	2 774	6 204	3.24
	1 321	14	16	8 942	2 205	6 737	4.06
			20	8 796	2 384	6 412	3.69
			27	8 556	2 718	5 838	3.15
16	1 764	23	16	9 694	2 279	7 415	4.25
			20	9 535	2 466	7 069	3.87
			27	9 355	2 810	6 545	3.33
	1 321	14	16	9 408	2 245	7 163	4.19
			20	9 260	2 432	6 828	3.81
			27	9 000	2 774	6 226	3.24
	882	7	16	8 905	2 193	6 712	4.06
			20	8 767	2 373	6 394	3.69
			27	8 565	2 713	5 852	3.16
20	1 764	23	16	9 934	2 347	7 587	4.23
			20	9 759	2 536	7 223	3.85
			27	9 453	2 880	6 573	3.28
	1 321	14	16	9 616	2 316	7 300	4.15
			20	9 459	2 503	6 956	3.78
			27	9 177	2 846	6 331	3.22
	882	7	16	9 055	2 255	6 800	4.02
			20	8 925	2 441	6 484	3.66
			27	8 702	2 782	5 920	3.13
27	1 764	23	16	11 710	2 474	9 236	4.73
			20	11 394	2 674	8 720	4.26
			27	11 178	3 050	8 128	3.66
	1 321	14	16	11 323	2 451	8 872	4.62
			20	11 163	2 641	8 522	4.23
			27	10 842	3 011	7 831	3.60
	882	7	16	10 676	2 381	8 295	4.48
			20	10 543	2 582	7 961	4.08
			27	10 257	2 933	7 324	3.50
30	1 764	23	16	11 724	2 503	9 221	4.68
			20	11 534	2 646	8 888	4.36
			27	11 206	3 070	8 136	3.65
	1 321	14	16	11 335	2 470	8 865	4.59
			20	11 184	2 670	8 514	4.19
			27	10 868	3 032	7 836	3.58
	882	7	16	10 688	2 410	8 278	4.43
			20	10 562	2 608	7 954	4.05
			27	10 301	2 961	7 340	3.48
32	1 764	23	16	12 147	2 531	9 616	4.80
			20	11 922	2 720	9 202	4.38
			27	11 577	3 104	8 473	3.73
	1 321	14	16	11 727	2 496	9 231	4.70
			20	11 548	2 698	8 850	4.28
			27	11 290	3 069	8 221	3.68
	882	7	16	11 040	2 437	8 603	4.53
			20	10 896	2 636	8 260	4.13
			27	10 646	3 003	7 643	3.55

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 30HE

Nominal airflow 1 500 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	1 838	21	24/17	8 559	6 298	1 550	10 109	5.52
			27/19	9 145	6 730	1 566	10 711	5.84
			30/21	9 822	7 228	1 589	11 411	6.18
	1 379	12.5	24/17	8 478	6 238	1 573	10 051	5.39
			27/19	9 059	6 666	1 589	10 648	5.7
			30/21	9 729	7 159	1 613	11 342	6.03
	919	5.7	24/17	8 337	6 135	1 658	9 995	5.03
			27/19	8 908	6 555	1 675	10 584	5.32
			30/21	9 568	7 040	1 700	11 268	5.63
27	1 838	21	24/17	8 316	6 298	1 817	10 133	4.58
			27/19	8 886	6 730	1 836	10 722	4.84
			30/21	9 544	7 228	1 863	11 407	5.12
	1 379	12.5	24/17	8 237	6 238	1 844	10 082	4.47
			27/19	8 802	6 666	1 863	10 665	4.72
			30/21	9 453	7 159	1 891	11 344	5
	919	5.7	24/17	8 101	6 135	1 944	10 045	4.17
			27/19	8 656	6 555	1 964	10 620	4.41
			30/21	9 297	7 040	1 993	11 290	4.66
30	1 838	21	24/17	8 151	6 248	1 937	10 089	4.21
			27/19	8 710	6 676	1 957	10 667	4.45
			30/21	9 354	7 170	1 986	11 341	4.71
	1 379	12.5	24/17	8 074	6 189	1 967	10 040	4.11
			27/19	8 627	6 613	1 986	10 614	4.34
			30/21	9 266	7 102	2 016	11 282	4.6
	919	5.7	24/17	7 940	6 086	2 073	10 013	3.83
			27/19	8 484	6 503	2 094	10 578	4.05
			30/21	9 112	6 984	2 125	11 238	4.29
32	1 838	21	24/17	8 021	6 197	2 020	10 040	3.97
			27/19	8 571	6 622	2 040	10 611	4.2
			30/21	9 205	7 112	2 071	11 275	4.45
	1 379	12.5	24/17	7 945	6 138	2 050	9 995	3.88
			27/19	8 489	6 559	2 071	10 560	4.1
			30/21	9 117	7 044	2 102	11 219	4.34
	919	5.7	24/17	7 813	6 037	2 161	9 974	3.62
			27/19	8 348	6 450	2 183	10 531	3.82
			30/21	8 966	6 928	2 216	11 182	4.05
38	1 838	21	24/17	7 532	5 958	2 275	9 807	3.31
			27/19	8 048	6 366	2 298	10 346	3.5
			30/21	8 644	6 837	2 333	10 976	3.71
	1 379	12.5	24/17	7 460	5 901	2 310	9 770	3.23
			27/19	7 972	6 306	2 333	10 304	3.42
			30/21	8 561	6 772	2 368	10 929	3.62
	919	5.7	24/17	7 337	5 803	2 435	9 771	3.01
			27/19	7 839	6 201	2 459	10 299	3.19
			30/21	8 420	6 660	2 496	10 916	3.37
40	1 838	21	24/17	7 336	5 848	2 364	9 700	3.1
			27/19	7 839	6 249	2 388	10 227	3.28
			30/21	8 419	6 711	2 423	10 842	3.47
	1 379	12.5	24/17	7 266	5 793	2 399	9 666	3.03
			27/19	7 764	6 190	2 423	10 188	3.2
			30/21	8 339	6 648	2 460	10 799	3.39
	919	5.7	24/17	7 146	5 697	2 529	9 675	2.83
			27/19	7 636	6 087	2 555	10 191	2.99
			30/21	8 201	6 537	2 593	10 794	3.16

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 30HE

Nominal airflow 1 500 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	1 838	21	16	9 301	1 795	7 506	5.18
			20	9 163	1 930	7 234	4.75
			27	8 980	2 219	6 761	4.05
	1 379	12.5	16	9 068	1 768	7 301	5.13
			20	8 934	1 901	7 033	4.7
			27	8 756	2 186	6 570	4.01
	919	5.7	16	8 557	1 723	6 834	4.97
			20	8 430	1 853	6 578	4.55
			27	8 262	2 130	6 131	3.88
16	1 838	21	16	9 603	1 855	7 749	5.18
			20	9 461	1 994	7 467	4.74
			27	9 272	2 293	6 979	4.04
	1 379	12.5	16	9 363	1 827	7 537	5.13
			20	9 225	1 964	7 261	4.7
			27	9 040	2 259	6 781	4
	919	5.7	16	8 835	1 780	7 055	4.96
			20	8 705	1 914	6 790	4.55
			27	8 530	2 202	6 329	3.87
20	1 838	21	16	10 110	1 930	8 180	5.24
			20	9 960	2 075	7 885	4.8
			27	9 761	2 386	7 375	4.09
	1 379	12.5	16	9 857	1 901	7 956	5.19
			20	9 711	2 044	7 667	4.75
			27	9 517	2 350	7 167	4.05
	919	5.7	16	9 301	1 853	7 448	5.02
			20	9 163	1 992	7 171	4.6
			27	8 980	2 291	6 689	3.92
27	1 838	21	16	11 278	2 048	9 230	5.51
			20	11 112	2 202	8 909	5.05
			27	10 890	2 533	8 357	4.3
	1 379	12.5	16	10 996	2 018	8 979	5.45
			20	10 834	2 169	8 665	4.99
			27	10 617	2 495	8 122	4.26
	919	5.7	16	10 376	1 966	8 410	5.28
			20	10 223	2 114	8 108	4.84
			27	10 018	2 431	7 587	4.12
30	1 838	21	16	11 890	2 094	9 796	5.68
			20	11 714	2 252	9 462	5.2
			27	11 480	2 589	8 890	4.43
	1 379	12.5	16	11 592	2 063	9 530	5.62
			20	11 421	2 218	9 203	5.15
			27	11 193	2 550	8 642	4.39
	919	5.7	16	10 938	2 010	8 928	5.44
			20	10 777	2 162	8 615	4.99
			27	10 561	2 486	8 075	4.25
32	1 838	21	16	12 334	2 123	10 211	5.81
			20	12 151	2 283	9 869	5.32
			27	11 908	2 625	9 284	4.54
	1 379	12.5	16	12 025	2 091	9 934	5.75
			20	11 848	2 248	9 599	5.27
			27	11 611	2 586	9 025	4.49
	919	5.7	16	11 347	2 038	9 309	5.57
			20	11 179	2 191	8 988	5.1
			27	10 956	2 520	8 436	4.35

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 36

Nominal airflow 1 580 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	2 030	25	24/17	10 185	7 110	2 122	12 307	4.80
			27/19	10 959	7 506	2 121	13 080	5.17
			30/21	11 748	7 863	2 118	13 866	5.55
	1 523	15	24/17	10 118	7 084	2 158	12 276	4.69
			27/19	10 888	7 461	2 168	13 056	5.02
			30/21	11 667	7 813	2 173	13 840	5.37
	1 015	7	24/17	9 995	7 022	2 247	12 242	4.45
			27/19	10 728	7 402	2 265	12 993	4.74
			30/21	11 480	7 746	2 279	13 759	5.04
27	2 030	25	24/17	9 822	7 075	2 441	12 263	4.02
			27/19	10 411	7 403	2 446	12 857	4.26
			30/21	11 123	7 717	2 450	13 573	4.54
	1 523	15	24/17	9 749	7 049	2 486	12 235	3.92
			27/19	10 434	7 418	2 500	12 934	4.17
			30/21	11 033	7 690	2 504	13 537	4.41
	1 015	7	24/17	9 602	6 973	2 586	12 188	3.71
			27/19	10 129	7 272	2 611	12 740	3.88
			30/21	10 798	7 570	2 628	13 426	4.11
30	2 030	25	24/17	9 597	6 970	2 582	12 179	3.72
			27/19	10 138	7 278	2 593	12 731	3.91
			30/21	10 874	7 619	2 597	13 471	4.19
	1 523	15	24/17	9 367	6 877	2 629	11 996	3.56
			27/19	10 061	7 228	2 645	12 706	3.80
			30/21	10 791	7 566	2 657	13 448	4.06
	1 015	7	24/17	9 247	6 807	2 728	11 975	3.39
			27/19	9 959	7 188	2 755	12 714	3.61
			30/21	10 660	7 512	2 776	13 436	3.84
32	2 030	25	24/17	9 316	6 829	2 648	11 964	3.52
			27/19	9 983	7 204	2 662	12 645	3.75
			30/21	10 779	7 557	2 667	13 446	4.04
	1 523	15	24/17	9 319	6 831	2 696	12 015	3.46
			27/19	9 967	7 193	2 710	12 677	3.68
			30/21	10 693	7 534	2 723	13 416	3.93
	1 015	7	24/17	9 178	6 760	2 796	11 974	3.28
			27/19	9 861	7 152	2 822	12 683	3.49
			30/21	10 549	7 474	2 845	13 394	3.71
38	2 030	25	24/17	8 576	6 473	2 776	11 352	3.09
			27/19	9 206	6 841	2 794	12 000	3.29
			30/21	9 903	7 179	2 806	12 709	3.53
	1 523	15	24/17	8 503	6 451	2 821	11 324	3.01
			27/19	9 118	6 813	2 847	11 965	3.20
			30/21	9 810	7 118	2 866	12 676	3.42
	1 015	7	24/17	8 336	6 364	2 928	11 264	2.85
			27/19	8 951	6 733	2 958	11 909	3.03
			30/21	9 620	7 065	2 993	12 613	3.21
40	2 030	25	24/17	8 413	6 389	2 887	11 300	2.91
			27/19	9 037	6 759	2 907	11 944	3.11
			30/21	9 720	7 094	2 921	12 641	3.33
	1 523	15	24/17	8 350	6 374	2 938	11 288	2.84
			27/19	8 964	6 742	2 963	11 927	3.03
			30/21	9 630	7 072	2 981	12 611	3.23
	1 015	7	24/17	8 153	6 267	3 040	11 193	2.68
			27/19	8 807	6 669	3 079	11 886	2.86
			30/21	9 445	6 948	3 109	12 554	3.04

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 36

Nominal airflow 1 580 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	2 030	25	16	10 020	2 620	7 400	3.82
			20	9 857	2 792	7 065	3.53
			27	9 849	3 208	6 641	3.07
	1 523	15	16	9 277	2 506	6 771	3.70
			20	9 115	2 703	6 412	3.37
			27	8 817	3 063	5 754	2.88
16	2 030	25	16	10 245	2 720	7 525	3.77
			20	10 144	2 826	7 318	3.59
			27	10 045	3 263	6 782	3.08
	1 523	15	16	10 027	2 588	7 439	3.87
			20	9 860	2 792	7 068	3.53
			27	9 562	3 167	6 395	3.02
	1 015	7	16	9 518	2 533	6 985	3.76
			20	9 348	2 730	6 618	3.42
			27	9 113	3 104	6 009	2.94
20	2 030	25	16	11 222	2 767	8 455	4.06
			20	11 036	2 979	8 057	3.70
			27	10 686	3 362	7 324	3.18
	1 523	15	16	10 887	2 728	8 159	3.99
			20	10 724	2 940	7 784	3.65
			27	10 399	3 322	7 077	3.13
	1 015	7	16	10 300	2 663	7 637	3.87
			20	10 131	2 867	7 264	3.53
			27	9 900	3 253	6 647	3.04
27	2 030	25	16	11 535	2 813	8 722	4.10
			20	11 259	3 011	8 248	3.74
			27	10 967	3 412	7 555	3.21
	1 523	15	16	11 161	2 772	8 389	4.03
			20	10 976	2 982	7 994	3.68
			27	10 672	3 374	7 298	3.16
	1 015	7	16	10 520	2 704	7 816	3.89
			20	10 345	2 907	7 438	3.56
			27	10 076	3 290	6 786	3.06
30	2 030	25	16	11 818	2 827	8 991	4.18
			20	11 602	3 038	8 564	3.82
			27	11 268	3 437	7 831	3.28
	1 523	15	16	11 437	2 787	8 650	4.10
			20	11 266	3 004	8 262	3.75
			27	10 946	3 395	7 551	3.22
	1 015	7	16	10 755	2 716	8 039	3.96
			20	10 629	2 930	7 699	3.63
			27	10 331	3 313	7 018	3.12
32	2 030	25	16	12 057	2 845	9 212	4.24
			20	11 840	3 056	8 784	3.87
			27	11 468	3 449	8 019	3.33
	1 523	15	16	11 671	2 806	8 865	4.16
			20	11 497	3 022	8 475	3.80
			27	11 140	3 407	7 733	3.27
	1 015	7	16	10 988	2 736	8 252	4.02
			20	10 819	2 944	7 875	3.67
			27	10 549	3 332	7 217	3.17

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 36HE

Nominal airflow 1 900 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	2 335	27.6	24/17	11 179	8 762	1 973	13 151	5.67
			27/19	11 945	9 363	1 993	13 938	5.99
			30/21	12 829	10 056	2 023	14 851	6.34
	1 752	16.5	24/17	11 072	8 679	2 003	13 075	5.53
			27/19	11 831	9 274	2 023	13 854	5.85
			30/21	12 707	9 960	2 053	14 760	6.19
	1 168	7.1	24/17	10 889	8 535	2 111	13 000	5.16
			27/19	11 635	9 120	2 132	13 768	5.46
			30/21	12 496	9 795	2 164	14 660	5.77
27	2 335	27.6	24/17	10 632	8 576	2 318	12 950	4.59
			27/19	11 360	9 164	2 342	13 702	4.85
			30/21	12 201	9 842	2 377	14 578	5.13
	1 752	16.5	24/17	10 531	8 495	2 353	12 884	4.48
			27/19	11 252	9 077	2 377	13 629	4.73
			30/21	12 085	9 749	2 412	14 497	5.01
	1 168	7.1	24/17	10 356	8 354	2 480	12 836	4.18
			27/19	11 066	8 927	2 506	13 571	4.42
			30/21	11 885	9 587	2 543	14 428	4.67
30	2 335	27.6	24/17	10 350	8 451	2 466	12 817	4.2
			27/19	11 060	9 030	2 491	13 551	4.44
			30/21	11 878	9 699	2 528	14 407	4.7
	1 752	16.5	24/17	10 252	8 371	2 503	12 755	4.1
			27/19	10 955	8 945	2 528	13 483	4.33
			30/21	11 766	9 607	2 566	14 332	4.58
	1 168	7.1	24/17	10 082	8 232	2 639	12 721	3.82
			27/19	10 773	8 796	2 665	13 439	4.04
			30/21	11 571	9 447	2 705	14 276	4.28
32	2 335	27.6	24/17	10 148	8 352	2 565	12 712	3.96
			27/19	10 843	8 924	2 591	13 434	4.19
			30/21	11 646	9 585	2 630	14 275	4.43
	1 752	16.5	24/17	10 051	8 273	2 603	12 655	3.86
			27/19	10 740	8 839	2 630	13 370	4.08
			30/21	11 535	9 494	2 669	14 204	4.32
	1 168	7.1	24/17	9 885	8 135	2 744	12 629	3.6
			27/19	10 562	8 693	2 772	13 334	3.81
			30/21	11 344	9 336	2 814	14 157	4.03
38	2 335	27.6	24/17	9 464	7 975	2 861	12 325	3.31
			27/19	10 113	8 522	2 890	13 003	3.5
			30/21	10 862	9 152	2 933	13 795	3.7
	1 752	16.5	24/17	9 375	7 899	2 904	12 278	3.23
			27/19	10 017	8 441	2 933	12 950	3.42
			30/21	10 758	9 065	2 977	13 735	3.61
	1 168	7.1	24/17	9 219	7 768	3 061	12 280	3.01
			27/19	9 851	8 301	3 092	12 943	3.19
			30/21	10 580	8 915	3 138	13 718	3.37
40	2 335	27.6	24/17	9 212	7 822	2 959	12 171	3.11
			27/19	9 843	8 359	2 989	12 833	3.29
			30/21	10 572	8 977	3 034	13 606	3.48
	1 752	16.5	24/17	9 124	7 748	3 004	12 128	3.04
			27/19	9 750	8 279	3 034	12 784	3.21
			30/21	10 471	8 892	3 080	13 551	3.4
	1 168	7.1	24/17	8 973	7 620	3 167	12 140	2.83
			27/19	9 588	8 142	3 199	12 787	3
			30/21	10 298	8 744	3 247	13 544	3.17

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 36HE

Nominal airflow 1 900 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	2 335	27.6	16	11 145	2 409	8 736	4.63
			20	10 980	2 590	8 390	4.24
			27	10 761	2 979	7 782	3.61
	1 752	16.5	16	10 866	2 373	8 494	4.58
			20	10 706	2 551	8 155	4.2
			27	10 492	2 934	7 558	3.58
	1 168	7.1	16	10 253	2 312	7 941	4.43
			20	10 102	2 486	7 615	4.06
			27	9 900	2 859	7 040	3.46
16	2 335	27.6	16	11 722	2 489	9 233	4.71
			20	11 549	2 677	8 872	4.31
			27	11 318	3 078	8 240	3.68
	1 752	16.5	16	11 429	2 452	8 977	4.66
			20	11 260	2 636	8 624	4.27
			27	11 035	3 032	8 003	3.64
	1 168	7.1	16	10 784	2 390	8 395	4.51
			20	10 625	2 569	8 056	4.14
			27	10 413	2 955	7 458	3.52
20	2 335	27.6	16	12 383	2 590	9 793	4.78
			20	12 200	2 785	9 415	4.38
			27	11 956	3 203	8 754	3.73
	1 752	16.5	16	12 074	2 551	9 522	4.73
			20	11 895	2 743	9 152	4.34
			27	11 657	3 155	8 503	3.7
	1 168	7.1	16	11 393	2 486	8 906	4.58
			20	11 224	2 674	8 551	4.2
			27	11 000	3 075	7 925	3.58
27	2 335	27.6	16	13 241	2 749	10 492	4.82
			20	13 046	2 956	10 090	4.41
			27	12 785	3 399	9 385	3.76
	1 752	16.5	16	12 910	2 708	10 203	4.77
			20	12 720	2 912	9 808	4.37
			27	12 465	3 348	9 117	3.72
	1 168	7.1	16	12 182	2 639	9 543	4.62
			20	12 002	2 838	9 164	4.23
			27	11 762	3 263	8 499	3.6
30	2 335	27.6	16	13 493	2 810	10 682	4.8
			20	13 293	3 022	10 271	4.4
			27	13 028	3 475	9 552	3.75
	1 752	16.5	16	13 156	2 768	10 387	4.75
			20	12 961	2 977	9 984	4.35
			27	12 702	3 423	9 279	3.71
	1 168	7.1	16	12 413	2 698	9 715	4.6
			20	12 230	2 901	9 329	4.22
			27	11 985	3 336	8 649	3.59
32	2 335	27.6	16	13 622	2 849	10 773	4.78
			20	13 420	3 064	10 357	4.38
			27	13 152	3 523	9 629	3.73
	1 752	16.5	16	13 281	2 806	10 475	4.73
			20	13 085	3 018	10 067	4.34
			27	12 823	3 470	9 353	3.7
	1 168	7.1	16	12 532	2 735	9 797	4.58
			20	12 347	2 941	9 406	4.2
			27	12 100	3 382	8 718	3.58

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 42

Nominal airflow 2 040 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	2 592	33	24/17	12 131	8 793	2 348	14 479	5.17
			27/19	12 917	9 298	2 368	15 285	5.45
			30/21	13 784	9 724	2 389	16 173	5.77
	1 944	20	24/17	12 026	8 758	2 404	14 430	5.00
			27/19	12 709	9 198	2 440	15 149	5.21
			30/21	13 718	9 671	2 462	16 180	5.57
	1 296	9	24/17	11 826	8 657	2 529	14 355	4.68
			27/19	12 606	9 122	2 569	15 175	4.91
			30/21	13 367	9 534	2 607	15 974	5.13
27	2 592	33	24/17	10 899	8 504	2 707	13 606	4.03
			27/19	11 646	8 959	2 739	14 385	4.25
			30/21	12 455	9 407	2 776	15 231	4.49
	1 944	20	24/17	10 804	8 477	2 768	13 572	3.90
			27/19	11 521	8 912	2 809	14 330	4.10
			30/21	12 339	9 383	2 849	15 188	4.33
	1 296	9	24/17	10 620	8 393	2 891	13 511	3.67
			27/19	12 022	9 212	2 998	15 020	4.01
			30/21	11 350	8 835	2 949	14 299	3.85
30	2 592	33	24/17	10 564	8 351	2 898	13 462	3.65
			27/19	11 366	8 849	2 942	14 308	3.86
			30/21	12 039	9 221	2 975	15 014	4.05
	1 944	20	24/17	10 506	8 309	2 959	13 465	3.55
			27/19	11 217	8 793	3 011	14 228	3.73
			30/21	11 984	9 185	3 052	15 036	3.93
	1 296	9	24/17	10 323	8 216	3 087	13 410	3.34
			27/19	11 055	8 674	3 150	14 205	3.51
			30/21	11 706	9 104	3 210	14 916	3.65
32	2 592	33	24/17	10 461	8 318	3 035	13 496	3.45
			27/19	11 153	8 743	3 076	14 229	3.63
			30/21	11 917	9 194	3 120	15 037	3.82
	1 944	20	24/17	10 314	8 209	3 094	13 408	3.33
			27/19	11 066	8 682	3 151	14 217	3.51
			30/21	11 791	9 109	3 197	14 988	3.69
	1 296	9	24/17	10 197	8 158	3 224	13 421	3.16
			27/19	10 853	8 576	3 287	14 140	3.30
			30/21	11 474	8 927	3 349	14 823	3.43
38	2 592	33	24/17	10 313	8 042	3 140	13 453	3.28
			27/19	11 050	8 483	3 185	14 235	3.47
			30/21	11 837	8 941	3 229	15 066	3.67
	1 944	20	24/17	10 213	8 002	3 206	13 419	3.19
			27/19	10 960	8 475	3 260	14 220	3.36
			30/21	11 702	8 892	3 305	15 007	3.54
	1 296	9	24/17	10 066	7 935	3 351	13 417	3.00
			27/19	10 704	8 387	3 414	14 118	3.14
			30/21	11 446	8 781	3 483	14 929	3.29
40	2 592	33	24/17	10 035	7 949	3 311	13 346	3.03
			27/19	10 843	8 380	3 335	14 178	3.25
			30/21	11 602	8 877	3 388	14 990	3.42
	1 944	20	24/17	10 000	7 886	3 359	13 359	2.98
			27/19	10 725	8 351	3 415	14 140	3.14
			30/21	11 458	8 789	3 470	14 928	3.30
	1 296	9	24/17	9 858	8 263	3 574	13 432	2.76
			27/19	10 478	8 240	3 554	14 032	2.95
			30/21	11 191	8 700	3 638	14 829	3.08

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 42

Nominal airflow 2 040 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	2 592	33	16	12 578	2 847	9 731	4.42
			20	12 222	3 082	9 140	3.97
			27	12 390	3 574	8 816	3.47
	1 944	20	16	12 023	2 812	9 211	4.28
			20	11 840	3 038	8 802	3.90
			27	11 505	3 460	8 045	3.33
16	2 592	33	16	13 410	2 953	10 457	4.54
			20	13 177	3 188	9 989	4.13
			27	12 783	3 625	9 158	3.53
	1 944	20	16	13 012	2 913	10 099	4.47
			20	12 799	3 146	9 653	4.07
			27	12 435	3 581	8 854	3.47
	1 296	9	16	12 295	2 836	9 459	4.34
			20	12 123	3 067	9 056	3.95
			27	11 849	3 506	8 343	3.38
20	2 592	33	16	14 686	3 023	11 663	4.86
			20	14 422	3 267	11 155	4.41
			27	13 974	3 720	10 254	3.76
	1 944	20	16	14 206	2 973	11 233	4.78
			20	13 996	3 222	10 774	4.34
			27	13 615	3 680	9 935	3.70
	1 296	9	16	14 056	2 897	11 159	4.85
			20	13 263	3 143	10 120	4.22
			27	12 910	3 578	9 332	3.61
27	2 592	33	16	16 231	3 140	13 091	5.17
			20	15 943	3 396	12 547	4.69
			27	15 456	3 871	11 585	3.99
	1 944	20	16	15 695	3 093	12 602	5.07
			20	15 435	3 346	12 089	4.61
			27	14 997	3 817	11 180	3.93
	1 296	9	16	14 769	3 010	11 759	4.91
			20	14 590	3 266	11 324	4.47
			27	14 197	3 948	10 249	3.60
30	2 592	33	16	16 408	3 418	12 990	4.80
			20	16 120	3 684	12 436	4.38
			27	15 612	4 172	11 440	3.74
	1 944	20	16	15 869	3 378	12 491	4.70
			20	15 608	3 641	11 967	4.29
			27	15 119	4 117	11 002	3.67
	1 296	9	16	14 887	3 298	11 589	4.51
			20	14 642	3 549	11 093	4.13
			27	14 270	4 025	10 245	3.55
32	2 592	33	16	17 173	3 520	13 653	4.88
			20	16 884	3 798	13 086	4.45
			27	16 325	4 290	12 035	3.81
	1 944	20	16	16 634	3 487	13 147	4.77
			20	16 336	3 754	12 582	4.35
			27	15 823	4 242	11 581	3.73
	1 296	9	16	15 559	3 404	12 155	4.57
			20	15 322	3 666	11 656	4.18
			27	14 904	4 145	10 759	3.60

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 42HE

Nominal airflow 2 040 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	2 641	30	24/17	12 283	9 002	2 235	14 518	5.5
			27/19	13 125	9 619	2 258	15 383	5.81
			30/21	14 096	10 331	2 292	16 388	6.15
	1 980	17.8	24/17	12 166	8 916	2 269	14 435	5.36
			27/19	13 000	9 527	2 292	15 292	5.67
			30/21	13 962	10 232	2 326	16 288	6
	1 320	9	24/17	11 965	8 769	2 392	14 356	5
			27/19	12 785	9 369	2 416	15 200	5.29
			30/21	13 731	10 063	2 452	16 183	5.6
27	2 641	30	24/17	11 910	8 983	2 626	14 537	4.54
			27/19	12 727	9 599	2 653	15 380	4.8
			30/21	13 669	10 309	2 693	16 361	5.08
	1 980	17.8	24/17	11 797	8 898	2 666	14 463	4.43
			27/19	12 606	9 508	2 693	15 298	4.68
			30/21	13 539	10 211	2 733	16 272	4.95
	1 320	9	24/17	11 602	8 751	2 810	14 412	4.13
			27/19	12 397	9 350	2 838	15 235	4.37
			30/21	13 314	10 042	2 881	16 195	4.62
30	2 641	30	24/17	11 698	8 930	2 794	14 492	4.19
			27/19	12 500	9 542	2 822	15 322	4.43
			30/21	13 425	10 249	2 864	16 289	4.69
	1 980	17.8	24/17	11 587	8 846	2 836	14 423	4.09
			27/19	12 381	9 452	2 864	15 246	4.32
			30/21	13 297	10 151	2 907	16 205	4.57
	1 320	9	24/17	11 395	8 699	2 989	14 384	3.81
			27/19	12 176	9 295	3 020	15 196	4.03
			30/21	13 077	9 983	3 065	16 142	4.27
32	2 641	30	24/17	11 539	8 879	2 906	14 445	3.97
			27/19	12 330	9 488	2 935	15 265	4.2
			30/21	13 242	10 190	2 979	16 221	4.45
	1 980	17.8	24/17	11 429	8 795	2 949	14 379	3.88
			27/19	12 213	9 398	2 979	15 192	4.1
			30/21	13 117	10 093	3 024	16 140	4.34
	1 320	9	24/17	11 240	8 649	3 109	14 349	3.62
			27/19	12 010	9 242	3 140	15 151	3.82
			30/21	12 899	9 926	3 188	16 087	4.05
38	2 641	30	24/17	10 978	8 648	3 241	14 218	3.39
			27/19	11 730	9 241	3 274	15 003	3.58
			30/21	12 598	9 925	3 323	15 921	3.79
	1 980	17.8	24/17	10 873	8 566	3 289	14 163	3.31
			27/19	11 619	9 153	3 323	14 941	3.5
			30/21	12 478	9 831	3 373	15 851	3.7
	1 320	9	24/17	10 693	8 424	3 468	14 161	3.08
			27/19	11 426	9 002	3 503	14 929	3.26
			30/21	12 271	9 668	3 555	15 827	3.45
40	2 641	30	24/17	10 762	8 545	3 353	14 115	3.21
			27/19	11 500	9 130	3 386	14 886	3.4
			30/21	12 351	9 806	3 437	15 788	3.59
	1 980	17.8	24/17	10 660	8 463	3 403	14 063	3.13
			27/19	11 391	9 043	3 437	14 828	3.31
			30/21	12 234	9 713	3 489	15 722	3.51
	1 320	9	24/17	10 483	8 323	3 587	14 071	2.92
			27/19	11 202	8 894	3 624	14 825	3.09
			30/21	12 031	9 552	3 678	15 709	3.27

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 42HE

Nominal airflow 2 040 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	2 641	30	16	13 200	2 489	10 711	5.3
			20	13 005	2 677	10 329	4.86
			27	12 745	3 078	9 667	4.14
	1 980	17.8	16	12 870	2 452	10 419	5.25
			20	12 680	2 636	10 044	4.81
			27	12 427	3 032	9 395	4.1
	1 320	9	16	12 144	2 390	9 755	5.08
			20	11 965	2 569	9 395	4.66
			27	11 726	2 955	8 771	3.97
16	2 641	30	16	13 845	2 572	11 273	5.38
			20	13 641	2 766	10 875	4.93
			27	13 368	3 181	10 187	4.2
	1 980	17.8	16	13 499	2 534	10 966	5.33
			20	13 300	2 724	10 575	4.88
			27	13 034	3 133	9 901	4.16
	1 320	9	16	12 738	2 469	10 268	5.16
			20	12 550	2 655	9 894	4.73
			27	12 299	3 054	9 245	4.03
20	2 641	30	16	14 667	2 677	11 991	5.48
			20	14 450	2 878	11 572	5.02
			27	14 161	3 310	10 852	4.28
	1 980	17.8	16	14 300	2 636	11 664	5.42
			20	14 089	2 835	11 254	4.97
			27	13 807	3 260	10 547	4.24
	1 320	9	16	13 494	2 569	10 924	5.25
			20	13 294	2 763	10 531	4.81
			27	13 028	3 177	9 851	4.1
27	2 641	30	16	15 999	2 841	13 158	5.63
			20	15 762	3 055	12 707	5.16
			27	15 447	3 513	11 934	4.4
	1 980	17.8	16	15 599	2 798	12 800	5.57
			20	15 368	3 009	12 359	5.11
			27	15 061	3 460	11 601	4.35
	1 320	9	16	14 719	2 727	11 991	5.4
			20	14 501	2 933	11 569	4.94
			27	14 211	3 372	10 839	4.21
30	2 641	30	16	16 528	2 904	13 624	5.69
			20	16 284	3 123	13 161	5.21
			27	15 958	3 591	12 367	4.44
	1 980	17.8	16	16 115	2 861	13 254	5.63
			20	15 877	3 076	12 801	5.16
			27	15 559	3 537	12 022	4.4
	1 320	9	16	15 206	2 788	12 418	5.45
			20	14 981	2 998	11 983	5
			27	14 681	3 448	11 234	4.26
32	2 641	30	16	16 867	2 944	13 923	5.73
			20	16 618	3 166	13 452	5.25
			27	16 285	3 641	12 645	4.47
	1 980	17.8	16	16 445	2 900	13 545	5.67
			20	16 202	3 118	13 084	5.2
			27	15 878	3 586	12 292	4.43
	1 320	9	16	15 518	2 826	12 691	5.49
			20	15 288	3 039	12 249	5.03
			27	14 983	3 495	11 488	4.29

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 48

Nominal airflow 2 750 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	2 822	34	24/17	13 108	9 998	2 434	16 552	5.39
			27/19	13 953	10 505	2 439	17 402	5.72
			30/21	14 861	11 025	2 445	18 316	6.08
	2 117	20	24/17	13 020	9 935	2 487	16 517	5.24
			27/19	13 861	10 449	2 498	17 369	5.55
			30/21	14 643	10 874	2 509	18 162	5.84
	1 411	10	24/17	12 841	9 845	2 602	16 453	4.94
			27/19	13 797	10 371	2 632	17 439	5.24
			30/21	14 428	10 824	2 645	18 083	5.45
27	2 822	34	24/17	12 465	9 674	2 867	16 342	4.35
			27/19	13 274	10 178	2 881	17 165	4.61
			30/21	14 128	10 667	2 893	18 031	4.88
	2 117	20	24/17	12 392	9 623	2 928	16 330	4.23
			27/19	13 173	10 152	2 949	17 132	4.47
			30/21	14 033	10 619	2 962	18 005	4.74
	1 411	10	24/17	12 212	9 532	3 046	16 268	4.01
			27/19	12 980	10 061	3 084	17 074	4.21
			30/21	13 797	10 506	3 109	17 916	4.44
30	2 822	34	24/17	12 193	9 507	3 073	16 276	3.97
			27/19	12 965	10 051	3 088	17 063	4.20
			30/21	13 794	10 504	3 103	17 907	4.45
	2 117	20	24/17	12 099	9 490	3 130	16 239	3.87
			27/19	12 872	9 973	3 155	17 037	4.08
			30/21	13 697	10 424	3 172	17 879	4.32
	1 411	10	24/17	11 937	9 374	3 256	16 203	3.67
			27/19	12 673	9 889	3 293	16 976	3.85
			30/21	13 473	10 388	3 327	17 810	4.05
32	2 822	34	24/17	12 002	9 421	3 215	16 227	3.73
			27/19	12 757	9 950	3 237	17 004	3.94
			30/21	13 595	10 417	3 251	17 856	4.18
	2 117	20	24/17	11 913	9 396	3 276	16 199	3.64
			27/19	12 664	9 882	3 299	16 973	3.84
			30/21	13 473	10 388	3 324	17 807	4.05
	1 411	10	24/17	11 750	9 279	3 401	16 161	3.45
			27/19	12 474	9 794	3 441	16 925	3.63
			30/21	13 260	10 293	3 479	17 749	3.81
38	2 822	34	24/17	11 399	9 103	3 664	16 073	3.11
			27/19	12 125	9 642	3 694	16 829	3.28
			30/21	12 916	10 102	3 717	17 643	3.47
	2 117	20	24/17	11 324	9 048	3 728	16 062	3.04
			27/19	12 053	9 579	3 769	16 832	3.20
			30/21	12 807	10 004	3 793	17 610	3.38
	1 411	10	24/17	11 144	8 949	3 862	16 016	2.89
			27/19	11 848	9 487	3 914	16 772	3.03
			30/21	12 596	9 993	3 955	17 561	3.18
40	2 822	34	24/17	11 196	8 982	3 831	16 037	2.92
			27/19	11 910	9 533	3 864	16 784	3.08
			30/21	12 694	9 991	3 890	17 594	3.26
	2 117	20	24/17	11 111	8 920	3 896	16 017	2.85
			27/19	11 818	9 454	3 930	16 758	3.01
			30/21	12 606	10 000	3 966	17 582	3.18
	1 411	10	24/17	10 950	8 845	4 028	15 988	2.72
			27/19	11 628	9 378	4 078	16 716	2.85
			30/21	12 379	9 897	4 127	17 516	3.00

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 48

Nominal airflow 2 750 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	2 822	34	16	13 215	2 850	9 355	4.64
			20	13 600	3 164	9 426	4.30
			27	13 840	3 739	9 091	3.70
	2 117	20	16	12 513	2 776	8 727	4.51
			20	12 458	3 038	8 410	4.10
			27	12 381	3 543	7 828	3.49
16	2 822	34	16	13 718	2 895	9 813	4.74
			20	13 680	3 174	9 496	4.31
			27	13 686	3 708	8 968	3.69
	2 117	20	16	13 408	2 868	9 530	4.68
			20	13 319	3 136	9 173	4.25
			27	13 188	3 649	8 529	3.61
	1 411	10	16	12 841	2 813	9 018	4.56
			20	12 787	3 077	8 700	4.16
			27	12 705	3 586	8 109	3.54
20	2 822	34	16	15 020	3 022	10 988	4.97
			20	14 904	3 309	10 585	4.50
			27	14 711	3 856	9 845	3.82
	2 117	20	16	14 619	2 980	10 629	4.91
			20	14 520	3 265	10 245	4.45
			27	14 366	3 808	9 548	3.77
	1 411	10	16	13 969	2 921	10 038	4.78
			20	13 913	3 202	9 701	4.35
			27	13 817	3 739	9 068	3.70
27	2 822	34	16	17 424	3 229	13 185	5.40
			20	17 291	3 551	12 730	4.87
			27	17 015	4 143	11 862	4.11
	2 117	20	16	16 976	3 197	12 769	5.31
			20	16 826	3 506	12 310	4.80
			27	16 594	4 092	11 492	4.06
	1 411	10	16	16 129	3 124	11 995	5.16
			20	15 983	3 218	11 755	4.97
			27	15 839	3 996	10 833	3.96
30	2 822	34	16	18 545	3 322	14 213	5.58
			20	18 364	3 651	13 703	5.03
			27	18 016	4 254	12 752	4.24
	2 117	20	16	18 046	3 285	13 751	5.49
			20	17 851	3 601	13 240	4.96
			27	17 585	4 208	12 367	4.18
	1 411	10	16	17 067	3 203	12 854	5.33
			20	16 968	3 522	12 436	4.82
			27	16 792	4 118	11 664	4.08
32	2 822	34	16	19 329	3 384	14 935	5.71
			20	19 075	3 708	14 357	5.14
			27	18 750	4 339	13 401	4.32
	2 117	20	16	18 770	3 342	14 418	5.62
			20	18 549	3 662	13 877	5.07
			27	18 271	4 289	12 972	4.26
	1 411	10	16	17 729	3 258	13 461	5.44
			20	17 613	3 580	13 023	4.92
			27	17 388	4 183	12 195	4.16

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 60

Nominal airflow 2 840 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	3 348	40	24/17	14 098	10 776	3 016	17 114	4.67
			27/19	15 117	11 343	3 018	18 135	5.01
			30/21	16 207	11 865	3 007	19 214	5.39
	2 520	24	24/17	13 995	10 705	3 065	17 060	4.57
			27/19	15 002	11 264	3 074	18 076	4.88
			30/21	16 076	11 776	3 068	19 144	5.24
	1 692	12	24/17	13 826	10 607	3 173	16 999	4.36
			27/19	14 793	11 161	3 194	17 987	4.63
			30/21	15 829	11 655	3 200	19 029	4.95
27	3 348	40	24/17	13 864	10 675	3 767	17 631	3.68
			27/19	14 598	11 116	3 772	18 370	3.87
			30/21	15 740	11 678	3 765	19 505	4.18
	2 520	24	24/17	13 613	10 541	3 815	17 428	3.57
			27/19	14 597	11 114	3 832	18 429	3.81
			30/21	15 680	11 708	3 832	19 512	4.09
	1 692	12	24/17	13 432	10 458	3 934	17 366	3.41
			27/19	14 373	11 010	3 959	18 332	3.63
			30/21	15 452	11 612	3 972	19 424	3.89
30	3 348	40	24/17	13 370	10 413	3 976	17 346	3.36
			27/19	14 344	10 988	3 987	18 331	3.60
			30/21	15 296	11 500	3 984	19 280	3.84
	2 520	24	24/17	13 285	10 351	4 028	17 313	3.30
			27/19	14 244	10 975	4 045	18 289	3.52
			30/21	15 152	11 456	4 052	19 204	3.74
	1 692	12	24/17	13 164	10 313	4 140	17 304	3.18
			27/19	14 108	10 876	4 175	18 283	3.38
			30/21	15 050	11 391	4 190	19 240	3.59
32	3 348	40	24/17	13 219	10 353	4 118	17 337	3.21
			27/19	14 182	10 929	4 138	18 320	3.43
			30/21	15 249	11 535	4 134	19 383	3.69
	2 520	24	24/17	13 194	10 335	4 175	17 369	3.16
			27/19	14 147	10 903	4 195	18 342	3.37
			30/21	15 137	11 445	4 203	19 340	3.60
	1 692	12	24/17	13 008	10 250	4 286	17 294	3.03
			27/19	13 924	10 792	4 318	18 242	3.22
			30/21	14 899	11 351	4 347	19 246	3.43
38	3 348	40	24/17	12 576	10 111	4 948	17 524	2.54
			27/19	13 488	10 692	4 967	18 455	2.72
			30/21	14 425	11 173	4 990	19 415	2.89
	2 520	24	24/17	12 542	10 086	4 982	17 524	2.52
			27/19	13 444	10 660	5 002	18 446	2.69
			30/21	14 428	11 237	5 027	19 455	2.87
	1 692	12	24/17	12 317	9 967	5 051	17 368	2.44
			27/19	13 300	10 593	5 091	18 391	2.61
			30/21	14 264	11 080	5 135	19 399	2.78
40	3 348	40	24/17	12 324	10 017	5 113	17 437	2.41
			27/19	13 231	10 561	5 136	18 367	2.58
			30/21	14 227	11 118	5 164	19 391	2.76
	2 520	24	24/17	12 182	9 914	5 129	17 311	2.38
			27/19	13 173	10 518	5 171	18 344	2.55
			30/21	14 170	11 050	5 200	19 370	2.73
	1 692	12	24/17	12 158	9 896	5 215	17 373	2.33
			27/19	13 041	10 459	5 258	18 299	2.48
			30/21	13 995	10 950	5 289	19 284	2.65

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 60

Nominal airflow 2 840 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	3 348	40	16	14 453	3 606	10 847	4.01
			20	14 341	3 881	10 460	3.70
			27	14 075	4 391	9 684	3.21
	2 520	24	16	12 693	3 368	9 325	3.77
			20	12 427	3 664	8 763	3.39
			27	12 176	4 247	7 929	2.87
16	3 348	40	16	15 353	3 693	11 660	4.16
			20	15 230	3 980	11 250	3.83
			27	15 140	4 529	10 611	3.34
	2 520	24	16	12 981	3 391	9 590	3.83
			20	12 454	3 730	8 724	3.34
			27	12 207	4 308	7 899	2.83
	1 692	12	16	11 867	3 332	8 535	3.56
			20	11 642	3 570	8 072	3.26
			27	11 268	4 019	7 249	2.80
20	3 348	40	16	16 396	3 818	12 578	4.29
			20	16 147	4 160	11 987	3.88
			27	15 741	4 766	10 975	3.30
	2 520	24	16	13 882	3 630	10 252	3.82
			20	13 618	3 882	9 736	3.51
			27	13 182	4 358	8 824	3.02
	1 692	12	16	13 256	3 566	9 690	3.72
			20	13 011	3 815	9 196	3.41
			27	12 606	4 279	8 327	2.95
27	3 348	40	16	17 276	4 082	13 194	4.23
			20	16 955	4 366	12 589	3.88
			27	16 443	4 896	11 547	3.36
	2 520	24	16	16 782	4 032	12 750	4.16
			20	16 519	4 324	12 195	3.82
			27	15 995	4 841	11 154	3.30
	1 692	12	16	16 001	3 964	12 037	4.04
			20	15 736	4 243	11 493	3.71
			27	15 284	4 754	10 530	3.21
30	3 348	40	16	18 522	4 334	14 188	4.27
			20	18 198	4 634	13 564	3.93
			27	17 627	5 182	12 445	3.40
	2 520	24	16	18 007	4 291	13 716	4.20
			20	17 709	4 588	13 121	3.86
			27	17 176	5 133	12 043	3.35
	1 692	12	16	17 106	4 215	12 891	4.06
			20	16 859	4 508	12 351	3.74
			27	16 411	5 045	11 366	3.25
32	3 348	40	16	19 361	4 398	14 963	4.40
			20	19 010	4 702	14 308	4.04
			27	18 480	5 276	13 204	3.50
	2 520	24	16	18 844	4 362	14 482	4.32
			20	18 522	4 662	13 860	3.97
			27	17 981	5 222	12 759	3.44
	1 692	12	16	17 849	4 276	13 573	4.17
			20	17 608	4 581	13 027	3.84
			27	17 159	5 133	12 026	3.34

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 60HE

Nominal airflow 3 050 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	3 458	30	24/17	16 410	13 112	2 833	19 244	5.79
			27/19	17 535	14 010	2 862	20 397	6.13
			30/21	18 832	15 047	2 905	21 737	6.48
	2 594	16.2	24/17	16 254	12 987	2 876	19 130	5.65
			27/19	17 368	13 877	2 905	20 273	5.98
			30/21	18 654	14 904	2 949	21 602	6.33
	1 729	3.6	24/17	15 985	12 772	3 032	19 017	5.27
			27/19	17 080	13 647	3 062	20 143	5.58
			30/21	18 344	14 657	3 108	21 453	5.9
27	3 458	30	24/17	15 945	13 112	3 096	19 041	5.15
			27/19	17 038	14 011	3 127	20 165	5.45
			30/21	18 299	15 047	3 174	21 473	5.77
	2 594	16.2	24/17	15 794	12 987	3 142	18 936	5.03
			27/19	16 876	13 878	3 174	20 050	5.32
			30/21	18 125	14 904	3 222	21 347	5.63
	1 729	3.6	24/17	15 532	12 772	3 313	18 845	4.69
			27/19	16 596	13 648	3 346	19 943	4.96
			30/21	17 825	14 657	3 396	21 221	5.25
30	3 458	30	24/17	15 629	13 008	3 333	18 962	4.69
			27/19	16 700	13 899	3 367	20 067	4.96
			30/21	17 936	14 928	3 418	21 353	5.25
	2 594	16.2	24/17	15 480	12 884	3 383	18 864	4.58
			27/19	16 541	13 767	3 418	19 959	4.84
			30/21	17 765	14 786	3 469	21 234	5.12
	1 729	3.6	24/17	15 224	12 671	3 567	18 790	4.27
			27/19	16 267	13 539	3 603	19 870	4.52
			30/21	17 471	14 541	3 657	21 128	4.78
32	3 458	30	24/17	15 379	12 902	3 533	18 912	4.35
			27/19	16 433	13 786	3 569	20 002	4.6
			30/21	17 649	14 807	3 623	21 271	4.87
	2 594	16.2	24/17	15 233	12 780	3 586	18 819	4.25
			27/19	16 277	13 655	3 623	19 899	4.49
			30/21	17 481	14 666	3 677	21 158	4.75
	1 729	3.6	24/17	14 980	12 568	3 781	18 761	3.96
			27/19	16 007	13 429	3 819	19 826	4.19
			30/21	17 191	14 423	3 876	21 068	4.44
38	3 458	30	24/17	14 441	12 404	4 333	18 774	3.33
			27/19	15 431	13 254	4 377	19 808	3.53
			30/21	16 573	14 235	4 443	21 015	3.73
	2 594	16.2	24/17	14 304	12 286	4 398	18 702	3.25
			27/19	15 284	13 128	4 443	19 727	3.44
			30/21	16 415	14 100	4 510	20 925	3.64
	1 729	3.6	24/17	14 067	12 082	4 637	18 703	3.03
			27/19	15 031	12 910	4 684	19 714	3.21
			30/21	16 143	13 866	4 754	20 897	3.4
40	3 458	30	24/17	14 066	12 175	4 667	18 733	3.01
			27/19	15 030	13 010	4 714	19 744	3.19
			30/21	16 142	13 972	4 785	20 927	3.37
	2 594	16.2	24/17	13 932	12 060	4 737	18 669	2.94
			27/19	14 887	12 886	4 785	19 672	3.11
			30/21	15 989	13 840	4 856	20 845	3.29
	1 729	3.6	24/17	13 701	11 860	4 993	18 695	2.74
			27/19	14 640	12 673	5 044	19 684	2.9
			30/21	15 724	13 610	5 120	20 843	3.07

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 60HE

Nominal airflow 3 050 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	3 458	30	16	17 174	3 621	13 553	4.74
			20	16 920	3 894	13 026	4.35
			27	16 582	4 478	12 104	3.7
	2 594	16.2	16	16 745	3 567	13 178	4.69
			20	16 497	3 836	12 662	4.3
			27	16 167	4 411	11 757	3.67
	1 729	3.6	16	15 800	3 477	12 324	4.54
			20	15 567	3 738	11 829	4.16
			27	15 255	4 299	10 957	3.55
16	3 458	30	16	17 983	3 742	14 241	4.81
			20	17 718	4 024	13 694	4.4
			27	17 363	4 628	12 736	3.75
	2 594	16.2	16	17 534	3 686	13 848	4.76
			20	17 275	3 964	13 311	4.36
			27	16 929	4 558	12 371	3.71
	1 729	3.6	16	16 545	3 593	12 952	4.61
			20	16 300	3 863	12 437	4.22
			27	15 974	4 442	11 532	3.6
20	3 458	30	16	19 082	3 894	15 188	4.9
			20	18 800	4 187	14 613	4.49
			27	18 424	4 815	13 609	3.83
	2 594	16.2	16	18 605	3 836	14 770	4.85
			20	18 330	4 124	14 206	4.44
			27	17 964	4 743	13 221	3.79
	1 729	3.6	16	17 556	3 738	13 818	4.7
			20	17 296	4 020	13 277	4.3
			27	16 950	4 622	12 328	3.67
27	3 458	30	16	21 061	4 133	16 928	5.1
			20	20 750	4 444	16 306	4.67
			27	20 335	5 111	15 224	3.98
	2 594	16.2	16	20 534	4 071	16 463	5.04
			20	20 231	4 377	15 854	4.62
			27	19 826	5 034	14 792	3.94
	1 729	3.6	16	19 376	3 968	15 408	4.88
			20	19 090	4 266	14 823	4.47
			27	18 708	4 906	13 802	3.81
30	3 458	30	16	21 930	4 225	17 705	5.19
			20	21 606	4 543	17 063	4.76
			27	21 174	5 225	15 949	4.05
	2 594	16.2	16	21 382	4 162	17 220	5.14
			20	21 066	4 475	16 591	4.71
			27	20 645	5 146	15 498	4.01
	1 729	3.6	16	20 176	4 056	16 120	4.97
			20	19 878	4 362	15 516	4.56
			27	19 480	5 016	14 464	3.88
32	3 458	30	16	22 517	4 283	18 234	5.26
			20	22 184	4 606	17 579	4.82
			27	21 741	5 297	16 444	4.1
	2 594	16.2	16	21 954	4 219	17 735	5.2
			20	21 630	4 537	17 093	4.77
			27	21 197	5 217	15 980	4.06
	1 729	3.6	16	20 716	4 112	16 604	5.04
			20	20 410	4 422	15 988	4.62
			27	20 002	5 085	14 917	3.93

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 72

Nominal airflow 3 570 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	3 924	61	24/17	17 433	13 370	3 853	21 286	4.52
			27/19	18 801	14 258	3 917	22 718	4.80
			30/21	20 355	15 080	3 983	24 338	5.11
	2 952	34	24/17	16 888	13 061	3 937	20 825	4.29
			27/19	18 535	14 055	4 066	22 601	4.56
			30/21	20 175	15 082	4 163	24 338	4.85
	1 944	15	24/17	16 474	12 853	4 183	20 657	3.94
			27/19	18 077	13 959	4 347	22 424	4.16
			30/21	19 532	14 735	4 448	23 980	4.39
27	3 924	61	24/17	16 336	12 745	4 521	20 857	3.61
			27/19	17 683	13 653	4 652	22 335	3.80
			30/21	19 063	14 520	4 729	23 792	4.03
	2 952	34	24/17	15 907	12 647	4 627	20 534	3.44
			27/19	17 495	13 638	4 789	22 284	3.65
			30/21	18 492	14 439	4 857	23 349	3.81
	1 944	15	24/17	16 057	12 645	4 962	21 019	3.24
			27/19	17 233	13 592	5 087	22 320	3.39
			30/21	18 388	14 373	5 203	23 591	3.53
30	3 924	61	24/17	15 850	12 602	4 852	20 702	3.27
			27/19	17 174	13 536	4 970	22 144	3.46
			30/21	18 545	14 473	5 058	23 603	3.67
	2 952	34	24/17	15 994	12 719	5 026	21 020	3.18
			27/19	16 851	13 342	5 121	21 972	3.29
			30/21	18 298	14 317	5 226	23 524	3.50
	1 944	15	24/17	15 669	12 471	5 282	20 951	2.97
			27/19	16 644	13 215	5 397	22 041	3.08
			30/21	17 799	14 010	5 548	23 347	3.21
32	3 924	61	24/17	15 929	12 667	5 111	21 040	3.12
			27/19	16 716	13 256	5 181	21 897	3.23
			30/21	18 217	14 267	5 306	23 523	3.43
	2 952	34	24/17	15 649	12 458	5 248	20 897	2.98
			27/19	16 460	13 228	5 318	21 778	3.10
			30/21	17 876	14 057	5 444	23 320	3.28
	1 944	15	24/17	15 257	12 319	5 498	20 755	2.78
			27/19	16 228	13 207	5 620	21 848	2.89
			30/21	17 417	14 067	5 774	23 191	3.02
38	3 924	61	24/17	14 522	11 952	5 714	20 236	2.54
			27/19	15 645	12 833	5 846	21 491	2.68
			30/21	16 963	13 775	6 009	22 972	2.82
	2 952	34	24/17	14 805	12 141	5 934	20 739	2.49
			27/19	15 552	12 901	5 987	21 539	2.60
			30/21	16 705	13 756	6 154	22 859	2.71
	1 944	15	24/17	14 316	11 937	6 165	20 481	2.32
			27/19	15 309	12 876	6 347	21 656	2.41
			30/21	16 635	13 717	6 509	23 144	2.56
40	3 924	61	24/17	14 615	12 016	6 029	20 644	2.42
			27/19	15 257	12 839	6 087	21 344	2.51
			30/21	16 523	13 783	6 252	22 775	2.64
	2 952	34	24/17	14 469	12 040	6 140	20 609	2.36
			27/19	15 318	12 882	6 276	21 594	2.44
			30/21	16 415	13 717	6 419	22 834	2.56
	1 944	15	24/17	13 729	11 665	6 344	20 073	2.16
			27/19	14 731	12 507	6 490	21 221	2.27
			30/21	15 932	13 422	6 715	22 647	2.37

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 72

Nominal airflow 3 570 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	3 924	61	16	19 244	5 241	14 004	3.67
			20	19 095	5 641	13 455	3.39
			27	18 741	6 382	12 359	2.94
	2 952	34	16	16 901	4 895	12 006	3.45
			20	16 547	5 325	11 222	3.11
			27	16 213	6 172	10 040	2.63
16	3 924	61	16	20 443	5 367	15 075	3.81
			20	20 279	5 784	14 495	3.51
			27	20 159	6 582	13 577	3.06
	2 952	34	16	17 284	4 928	12 356	3.51
			20	16 583	5 421	11 162	3.06
			27	16 254	6 261	9 993	2.60
	1 944	15	16	15 801	4 843	10 958	3.26
			20	15 502	5 189	10 313	2.99
			27	15 004	5 841	9 162	2.57
20	3 924	61	16	21 832	5 549	16 283	3.93
			20	21 500	6 046	15 454	3.56
			27	20 959	6 927	14 033	3.03
	2 952	34	16	18 484	5 276	13 208	3.50
			20	18 133	5 642	12 491	3.21
			27	17 552	6 334	11 218	2.77
	1 944	15	16	17 651	5 183	12 468	3.41
			20	17 324	5 545	11 780	3.12
			27	16 785	6 219	10 566	2.70
27	3 924	61	16	23 003	5 933	17 071	3.88
			20	22 576	6 345	16 230	3.56
			27	21 894	7 116	14 778	3.08
	2 952	34	16	22 346	5 860	16 486	3.81
			20	21 995	6 284	15 711	3.50
			27	21 298	7 036	14 262	3.03
	1 944	15	16	21 306	5 761	15 544	3.70
			20	20 953	6 167	14 786	3.40
			27	20 351	6 909	13 442	2.95
30	3 924	61	16	24 662	6 299	18 363	3.92
			20	24 231	6 735	17 496	3.60
			27	23 471	7 531	15 939	3.12
	2 952	34	16	23 977	6 236	17 740	3.84
			20	23 580	6 668	16 912	3.54
			27	22 870	7 460	15 410	3.07
	1 944	15	16	22 777	6 126	16 651	3.72
			20	22 448	6 552	15 896	3.43
			27	21 852	7 332	14 519	2.98
32	3 924	61	16	25 779	6 392	19 388	4.03
			20	25 312	6 834	18 478	3.70
			27	24 606	7 668	16 938	3.21
	2 952	34	16	25 091	6 340	18 752	3.96
			20	24 662	6 776	17 887	3.64
			27	23 942	7 589	16 353	3.15
	1 944	15	16	23 766	6 215	17 552	3.82
			20	23 445	6 658	16 787	3.52
			27	22 847	7 460	15 387	3.06

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 72HE

Nominal airflow 4 000 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	4 319	45	24/17	21 014	17 333	3 752	24 766	5.6
			27/19	22 454	18 521	3 790	26 244	5.92
			30/21	24 115	19 891	3 847	27 962	6.27
	3 239	26.4	24/17	20 814	17 168	3 809	24 623	5.46
			27/19	22 241	18 345	3 847	26 088	5.78
			30/21	23 886	19 702	3 905	27 791	6.12
	2 159	9.7	24/17	20 469	16 883	4 015	24 484	5.1
			27/19	21 872	18 041	4 056	25 927	5.39
			30/21	23 490	19 376	4 116	27 607	5.71
27	4 319	45	24/17	19 839	16 842	4 123	23 963	4.81
			27/19	21 199	17 996	4 165	25 364	5.09
			30/21	22 768	19 328	4 227	26 995	5.39
	3 239	26.4	24/17	19 651	16 682	4 185	23 836	4.7
			27/19	20 998	17 825	4 227	25 225	4.97
			30/21	22 552	19 144	4 291	26 843	5.26
	2 159	9.7	24/17	19 325	16 405	4 412	23 737	4.38
			27/19	20 650	17 529	4 456	25 106	4.63
			30/21	22 178	18 827	4 523	26 701	4.9
30	4 319	45	24/17	19 278	16 564	4 415	23 693	4.37
			27/19	20 600	17 699	4 459	25 059	4.62
			30/21	22 124	19 009	4 526	26 650	4.89
	3 239	26.4	24/17	19 095	16 407	4 481	23 576	4.26
			27/19	20 404	17 531	4 526	24 930	4.51
			30/21	21 914	18 829	4 594	26 508	4.77
	2 159	9.7	24/17	18 779	16 135	4 724	23 502	3.98
			27/19	20 066	17 241	4 771	24 837	4.21
			30/21	21 551	18 517	4 843	26 394	4.45
32	4 319	45	24/17	18 885	16 356	4 653	23 538	4.06
			27/19	20 180	17 477	4 700	24 879	4.29
			30/21	21 673	18 770	4 770	26 443	4.54
	3 239	26.4	24/17	18 706	16 201	4 723	23 429	3.96
			27/19	19 988	17 311	4 770	24 758	4.19
			30/21	21 467	18 592	4 842	26 309	4.43
	2 159	9.7	24/17	18 396	15 932	4 979	23 374	3.69
			27/19	19 657	17 024	5 029	24 686	3.91
			30/21	21 111	18 284	5 104	26 216	4.14
38	4 319	45	24/17	17 613	15 617	5 580	23 193	3.16
			27/19	18 820	16 688	5 636	24 456	3.34
			30/21	20 213	17 922	5 721	25 934	3.53
	3 239	26.4	24/17	17 446	15 469	5 664	23 109	3.08
			27/19	18 641	16 529	5 721	24 362	3.26
			30/21	20 021	17 752	5 807	25 827	3.45
	2 159	9.7	24/17	17 156	15 212	5 971	23 127	2.87
			27/19	18 332	16 255	6 031	24 363	3.04
			30/21	19 689	17 458	6 121	25 810	3.22
40	4 319	45	24/17	17 158	15 332	5 960	23 117	2.88
			27/19	18 334	16 383	6 020	24 354	3.05
			30/21	19 691	17 595	6 110	25 801	3.22
	3 239	26.4	24/17	16 995	15 186	6 049	23 044	2.81
			27/19	18 160	16 227	6 110	24 270	2.97
			30/21	19 504	17 428	6 202	25 705	3.14
	2 159	9.7	24/17	16 713	14 934	6 377	23 090	2.62
			27/19	17 859	15 958	6 441	24 300	2.77
			30/21	19 180	17 139	6 538	25 718	2.93

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 72HE

Nominal airflow 4 000 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	4 319	45	16	20 646	4 643	16 003	4.45
			20	20 340	4 992	15 348	4.07
			27	19 934	5 741	14 193	3.47
	3 239	26.4	16	20 129	4 573	15 556	4.4
			20	19 832	4 917	14 915	4.03
			27	19 435	5 655	13 780	3.44
	2 159	9.7	16	18 994	4 457	14 537	4.26
			20	18 713	4 793	13 921	3.9
			27	18 339	5 511	12 828	3.33
16	4 319	45	16	21 618	4 798	16 821	4.51
			20	21 299	5 159	16 140	4.13
			27	20 873	5 933	14 940	3.52
	3 239	26.4	16	21 078	4 726	16 352	4.46
			20	20 766	5 082	15 685	4.09
			27	20 351	5 844	14 507	3.48
	2 159	9.7	16	19 889	4 606	15 283	4.32
			20	19 595	4 953	14 642	3.96
			27	19 203	5 695	13 508	3.37
20	4 319	45	16	22 940	4 992	17 947	4.6
			20	22 601	5 368	17 232	4.21
			27	22 149	6 173	15 975	3.59
	3 239	26.4	16	22 366	4 917	17 449	4.55
			20	22 036	5 288	16 748	4.17
			27	21 595	6 081	15 514	3.55
	2 159	9.7	16	21 104	4 793	16 312	4.4
			20	20 792	5 153	15 639	4.03
			27	20 377	5 926	14 450	3.44
27	4 319	45	16	25 318	5 299	20 019	4.78
			20	24 944	5 698	19 246	4.38
			27	24 445	6 552	17 893	3.73
	3 239	26.4	16	24 685	5 219	19 466	4.73
			20	24 320	5 612	18 708	4.33
			27	23 834	6 454	17 380	3.69
	2 159	9.7	16	23 293	5 087	18 206	4.58
			20	22 948	5 470	17 479	4.2
			27	22 489	6 290	16 199	3.58
30	4 319	45	16	26 363	5 417	20 946	4.87
			20	25 974	5 825	20 149	4.46
			27	25 454	6 699	18 756	3.8
	3 239	26.4	16	25 704	5 336	20 368	4.82
			20	25 324	5 737	19 587	4.41
			27	24 818	6 598	18 220	3.76
	2 159	9.7	16	24 254	5 200	19 054	4.66
			20	23 896	5 592	18 304	4.27
			27	23 418	6 431	16 987	3.64
32	4 319	45	16	27 069	5 492	21 577	4.93
			20	26 669	5 905	20 764	4.52
			27	26 135	6 791	19 345	3.85
	3 239	26.4	16	26 392	5 409	20 983	4.88
			20	26 002	5 816	20 186	4.47
			27	25 482	6 689	18 793	3.81
	2 159	9.7	16	24 903	5 272	19 631	4.72
			20	24 535	5 669	18 866	4.33
			27	24 044	6 519	17 525	3.69

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 96

Nominal airflow 4 700 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	4 860	55	24/17	21 644	17 208	4 266	25 910	5.07
			27/19	23 635	18 652	4 298	27 933	5.50
			30/21	26 075	19 865	4 308	30 383	6.05
	3 636	33	24/17	22 821	17 795	4 399	27 220	5.19
			27/19	23 368	18 480	4 404	27 772	5.31
			30/21	25 734	20 064	4 439	30 173	5.80
	2 448	14	24/17	22 370	17 604	4 619	26 989	4.84
			27/19	23 650	18 665	4 677	28 327	5.06
			30/21	25 123	19 680	4 705	29 828	5.34
27	4 860	55	24/17	21 388	17 218	5 019	26 407	4.26
			27/19	22 391	18 222	5 052	27 443	4.43
			30/21	24 435	19 455	5 100	29 535	4.79
	3 636	33	24/17	20 569	16 838	5 091	25 660	4.04
			27/19	22 743	18 457	5 186	27 929	4.39
			30/21	24 081	19 434	5 222	29 303	4.61
	2 448	14	24/17	21 024	17 151	5 360	26 384	3.92
			27/19	22 500	18 299	5 432	27 932	4.14
			30/21	23 554	19 108	5 488	29 042	4.29
30	4 860	55	24/17	19 969	16 604	5 302	25 271	3.77
			27/19	21 743	17 986	5 380	27 123	4.04
			30/21	23 660	19 373	5 444	29 104	4.35
	3 636	33	24/17	20 255	16 801	5 424	25 679	3.73
			27/19	21 562	17 869	5 493	27 055	3.93
			30/21	23 365	19 186	5 576	28 941	4.19
	2 448	14	24/17	20 264	16 811	5 687	25 951	3.56
			27/19	21 800	18 030	5 787	27 587	3.77
			30/21	22 852	19 063	5 834	28 686	3.92
32	4 860	55	24/17	20 142	16 726	5 560	25 702	3.62
			27/19	21 313	17 888	5 617	26 930	3.79
			30/21	23 115	19 030	5 691	28 806	4.06
	3 636	33	24/17	19 846	16 526	5 629	25 475	3.53
			27/19	21 691	17 958	5 753	27 444	3.77
			30/21	22 716	18 975	5 804	28 520	3.91
	2 448	14	24/17	19 683	16 588	5 892	25 575	3.34
			27/19	21 263	17 863	6 007	27 270	3.54
			30/21	22 427	18 799	6 093	28 520	3.68
38	4 860	55	24/17	19 231	16 287	6 293	25 524	3.06
			27/19	20 431	17 497	6 368	26 799	3.21
			30/21	21 200	18 398	6 382	27 582	3.32
	3 636	33	24/17	18 127	15 854	6 246	24 373	2.90
			27/19	20 743	17 533	6 503	27 246	3.19
			30/21	21 695	18 719	6 570	28 265	3.30
	2 448	14	24/17	18 756	16 134	6 601	25 357	2.84
			27/19	19 615	17 136	6 657	26 272	2.95
			30/21	21 454	18 570	6 842	28 296	3.14
40	4 860	55	24/17	18 938	16 256	6 506	25 444	2.91
			27/19	20 399	17 483	6 632	27 031	3.08
			30/21	21 342	18 495	6 692	28 034	3.19
	3 636	33	24/17	17 806	15 643	6 491	24 297	2.74
			27/19	20 134	17 483	6 758	26 892	2.98
			30/21	20 703	18 101	6 783	27 486	3.05
	2 448	14	24/17	18 810	16 018	6 882	25 692	2.73
			27/19	19 405	17 009	6 920	26 325	2.80
			30/21	20 952	18 279	7 124	28 076	2.94
45	4 860	55	24/17	18 013	15 952	7 194	25 207	2.50
			27/19	18 748	16 889	7 224	25 972	2.60
			30/21	20 071	18 040	7 318	27 389	2.74
	3 636	33	24/17	17 843	15 835	7 293	25 136	2.45
			27/19	19 222	17 056	7 398	26 620	2.60
			30/21	19 767	17 850	7 450	27 217	2.65
	2 448	14	24/17	17 533	15 627	7 481	25 014	2.34
			27/19	18 365	16 642	7 544	25 909	2.43
			30/21	19 742	17 840	7 745	27 487	2.55

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 96

Nominal airflow 4 700 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	3 636	33	16	21 859	6 000	15 859	3.64
			20	21 694	6 415	15 279	3.38
16	4 860	55	16	24 340	6 277	18 063	3.88
			20	24 134	6 710	17 424	3.60
	3 636	33	16	23 613	6 200	17 413	3.81
			20	23 430	6 628	16 802	3.54
	2 448	14	16	22 332	6 048	16 284	3.69
			20	22 208	6 469	15 739	3.43
20	4 860	55	16	26 859	6 529	20 330	4.11
			20	26 637	7 007	19 630	3.80
	3 636	33	16	26 018	6 430	19 588	4.05
			20	25 822	6 904	18 918	3.74
	2 448	14	16	24 540	6 285	18 255	3.90
			20	24 454	6 750	17 704	3.62
27	4 860	55	16	31 548	6 937	24 611	4.55
			20	31 271	7 479	23 792	4.18
	3 636	33	16	30 541	6 860	23 681	4.45
			20	30 324	7 394	22 930	4.10
	2 448	14	16	28 874	6 719	22 155	4.30
			20	28 519	7 210	21 309	3.96
30	4 860	55	16	33 670	7 100	26 570	4.74
			20	33 349	7 656	25 693	4.36
	3 636	33	16	32 563	7 006	25 557	4.65
			20	32 287	7 555	24 732	4.27
	2 448	14	16	30 761	6 889	23 872	4.47
			20	30 596	7 424	23 172	4.12
32	4 860	55	16	35 148	7 201	27 947	4.88
			20	34 817	7 766	27 051	4.48
	3 636	33	16	33 944	7 122	26 822	4.77
			20	33 666	7 678	25 988	4.38
	2 448	14	16	31 602	6 932	24 670	4.56
			20	31 825	7 534	24 291	4.22

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 96HE

Nominal airflow 4 700 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	5 111	55.3	24/17	24 763	18 920	4 341	29 103	5.7
			27/19	26 460	20 217	4 384	30 844	6.03
			30/21	28 418	21 713	4 450	32 868	6.39
	3 833	32.5	24/17	24 527	18 741	4 406	28 933	5.57
			27/19	26 209	20 025	4 450	30 659	5.89
			30/21	28 148	21 507	4 517	32 665	6.23
	2 556	11.7	24/17	24 121	18 430	4 644	28 765	5.19
			27/19	25 774	19 693	4 691	30 465	5.49
			30/21	27 681	21 150	4 762	32 443	5.81
27	5 111	55.3	24/17	23 455	18 443	4 770	28 224	4.92
			27/19	25 062	19 708	4 818	29 880	5.2
			30/21	26 917	21 166	4 890	31 807	5.5
	3 833	32.5	24/17	23 232	18 268	4 841	28 073	4.8
			27/19	24 824	19 520	4 890	29 714	5.08
			30/21	26 661	20 965	4 963	31 624	5.37
	2 556	11.7	24/17	22 847	17 965	5 103	27 950	4.48
			27/19	24 413	19 197	5 155	29 568	4.74
			30/21	26 219	20 617	5 232	31 451	5.01
30	5 111	55.3	24/17	22 928	18 249	5 107	28 035	4.49
			27/19	24 500	19 499	5 158	29 658	4.75
			30/21	26 313	20 942	5 235	31 548	5.03
	3 833	32.5	24/17	22 711	18 075	5 183	27 894	4.38
			27/19	24 267	19 314	5 236	29 503	4.64
			30/21	26 063	20 743	5 314	31 377	4.9
	2 556	11.7	24/17	22 334	17 776	5 464	27 798	4.09
			27/19	23 865	18 994	5 519	29 384	4.32
			30/21	25 631	20 400	5 602	31 233	4.58
32	5 111	55.3	24/17	22 589	18 122	5 382	27 971	4.2
			27/19	24 137	19 364	5 437	29 574	4.44
			30/21	25 923	20 797	5 518	31 442	4.7
	3 833	32.5	24/17	22 374	17 950	5 463	27 837	4.1
			27/19	23 908	19 181	5 518	29 426	4.33
			30/21	25 677	20 600	5 601	31 278	4.58
	2 556	11.7	24/17	22 004	17 653	5 759	27 763	3.82
			27/19	23 512	18 863	5 817	29 329	4.04
			30/21	25 252	20 259	5 904	31 156	4.28
38	5 111	55.3	24/17	21 626	17 763	6 455	28 081	3.35
			27/19	23 108	18 980	6 520	29 628	3.54
			30/21	24 818	20 385	6 618	31 436	3.75
	3 833	32.5	24/17	21 421	17 594	6 551	27 972	3.27
			27/19	22 889	18 800	6 618	29 506	3.46
			30/21	24 583	20 191	6 717	31 299	3.66
	2 556	11.7	24/17	21 066	17 303	6 907	27 972	3.05
			27/19	22 509	18 488	6 976	29 486	3.23
			30/21	24 175	19 857	7 081	31 256	3.41
40	5 111	55.3	24/17	21 323	17 650	6 894	28 217	3.09
			27/19	22 785	18 860	6 963	29 748	3.27
			30/21	24 471	20 255	7 068	31 539	3.46
	3 833	32.5	24/17	21 121	17 482	6 997	28 118	3.02
			27/19	22 568	18 681	7 068	29 636	3.19
			30/21	24 239	20 063	7 174	31 412	3.38
	2 556	11.7	24/17	20 771	17 193	7 376	28 147	2.82
			27/19	22 194	18 371	7 451	29 645	2.98
			30/21	23 837	19 731	7 563	31 399	3.15

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 96HE

Nominal airflow 4 700 m³/h

Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	5 111	55.3	16	24 589	5 465	19 124	4.5
			20	24 226	5 877	18 349	4.12
			27	23 741	6 758	16 983	3.51
	3 833	32.5	16	23 974	5 383	18 591	4.45
			20	23 620	5 789	17 832	4.08
			27	23 148	6 657	16 491	3.48
	2 556	11.7	16	22 622	5 247	17 375	4.31
			20	22 288	5 642	16 646	3.95
			27	21 842	6 488	15 354	3.37
16	5 111	55.3	16	26 384	5 648	20 736	4.67
			20	25 994	6 073	19 921	4.28
			27	25 474	6 984	18 490	3.65
	3 833	32.5	16	25 724	5 563	20 161	4.62
			20	25 344	5 982	19 362	4.24
			27	24 837	6 879	17 958	3.61
	2 556	11.7	16	24 273	5 422	18 851	4.48
			20	23 914	5 830	18 084	4.1
			27	23 436	6 705	16 731	3.5
20	5 111	55.3	16	28 928	5 877	23 052	4.92
			20	28 501	6 319	22 182	4.51
			27	27 931	7 267	20 664	3.84
	3 833	32.5	16	28 205	5 789	22 417	4.87
			20	27 788	6 224	21 564	4.46
			27	27 233	7 158	20 075	3.8
	2 556	11.7	16	26 614	5 642	20 973	4.72
			20	26 221	6 066	20 155	4.32
			27	25 696	6 976	18 720	3.68
27	5 111	55.3	16	33 801	6 238	27 563	5.42
			20	33 301	6 707	26 594	4.97
			27	32 635	7 713	24 922	4.23
	3 833	32.5	16	32 956	6 144	26 812	5.36
			20	32 469	6 606	25 862	4.91
			27	31 819	7 597	24 222	4.19
	2 556	11.7	16	31 097	5 988	25 109	5.19
			20	30 637	6 439	24 198	4.76
			27	30 024	7 405	22 620	4.05
30	5 111	55.3	16	36 052	6 377	29 675	5.65
			20	35 519	6 857	28 662	5.18
			27	34 809	7 885	26 924	4.41
	3 833	32.5	16	35 151	6 281	28 869	5.6
			20	34 631	6 754	27 877	5.13
			27	33 939	7 767	26 172	4.37
	2 556	11.7	16	33 168	6 122	27 046	5.42
			20	32 678	6 582	26 095	4.96
			27	32 024	7 570	24 454	4.23
32	5 111	55.3	16	37 607	6 464	31 143	5.82
			20	37 051	6 951	30 100	5.33
			27	36 310	7 994	28 317	4.54
	3 833	32.5	16	36 667	6 367	30 299	5.76
			20	36 125	6 847	29 278	5.28
			27	35 403	7 874	27 529	4.5
	2 556	11.7	16	34 599	6 206	28 393	5.58
			20	34 087	6 673	27 414	5.11
			27	33 405	7 674	25 732	4.35

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

Cooling Performance Data - SYSHRW 120

Nominal airflow 5 600 m³/h

Entering Water Temp (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Cooling mode					
			TEA (°C)	Pt (W)	Ps (W)	Pabs (W)	CR (W)	EER
20	6 408	80.5	24/17	30 869	24 180	5 684	36 553	5.43
			27/19	32 648	25 559	5 704	38 352	5.72
			30/21	34 971	27 110	5 723	40 694	6.11
	4 824	62	24/17	30 418	24 059	5 843	36 261	5.21
			27/19	32 454	25 425	5 886	38 340	5.51
			30/21	34 135	26 613	5 891	40 026	5.79
	3 204	26	24/17	28 856	23 206	6 123	34 979	4.71
			27/19	30 997	24 806	6 208	37 205	4.99
			30/21	32 951	26 195	6 276	39 227	5.25
27	6 408	80.5	24/17	29 095	23 308	6 672	35 767	4.36
			27/19	30 735	24 887	6 707	37 442	4.58
			30/21	32 480	26 197	6 735	39 215	4.82
	4 824	62	24/17	28 791	23 357	6 818	35 609	4.22
			27/19	30 676	24 853	6 895	37 571	4.45
			30/21	32 442	26 179	6 947	39 389	4.67
	3 204	26	24/17	27 957	23 060	7 128	35 085	3.92
			27/19	29 878	24 617	7 243	37 121	4.13
			30/21	32 278	26 371	7 370	39 648	4.38
30	6 408	80.5	24/17	28 213	22 985	7 089	35 302	3.98
			27/19	29 951	24 413	7 163	37 114	4.18
			30/21	31 887	25 863	7 245	39 132	4.40
	4 824	62	24/17	28 231	23 000	7 272	35 503	3.88
			27/19	29 985	24 438	7 360	37 345	4.07
			30/21	31 368	26 087	7 424	38 792	4.23
	3 204	26	24/17	27 285	22 631	7 584	34 869	3.60
			27/19	28 728	24 155	7 676	36 404	3.74
			30/21	31 073	25 918	7 845	38 918	3.96
32	6 408	80.5	24/17	26 867	22 585	7 304	34 171	3.68
			27/19	29 402	24 577	7 472	36 874	3.93
			30/21	31 454	26 142	7 564	39 018	4.16
	4 824	62	24/17	27 394	22 701	7 557	34 951	3.62
			27/19	29 268	24 494	7 665	36 933	3.82
			30/21	31 113	25 940	7 763	38 876	4.01
	3 204	26	24/17	26 606	22 425	7 870	34 476	3.38
			27/19	28 373	24 180	7 993	36 366	3.55
			30/21	30 317	25 472	8 143	38 460	3.72
38	6 408	80.5	24/17	26 299	22 465	8 333	34 632	3.16
			27/19	27 192	23 676	8 383	35 575	3.24
			30/21	29 500	25 498	8 553	38 053	3.45
	4 824	62	24/17	25 441	22 124	8 463	33 904	3.01
			27/19	27 819	23 848	8 642	36 461	3.22
			30/21	29 422	25 458	8 767	38 189	3.36
	3 204	26	24/17	25 074	21 889	8 801	33 875	2.85
			27/19	26 766	23 431	8 978	35 744	2.98
			30/21	28 600	24 683	9 146	37 746	3.13
40	6 408	80.5	24/17	25 952	22 245	8 680	34 632	2.99
			27/19	26 773	23 645	8 705	35 478	3.08
			30/21	29 268	25 370	8 922	38 190	3.28
	4 824	62	24/17	25 427	22 125	8 806	34 233	2.89
			27/19	27 255	23 736	8 968	36 223	3.04
			30/21	28 830	25 118	9 104	37 934	3.17
	3 204	26	24/17	24 839	21 745	9 132	33 971	2.72
			27/19	25 980	23 364	9 262	35 242	2.81
			30/21	27 108	24 919	9 424	36 532	2.88
45	6 408	80.5	24/17	24 270	21 587	9 479	33 749	2.56
			27/19	25 973	23 372	9 641	35 614	2.69
			30/21	27 413	24 731	9 774	37 187	2.80
	4 824	62	24/17	24 320	21 626	9 658	33 978	2.52
			27/19	25 583	23 126	9 808	35 391	2.61
			30/21	27 399	24 727	9 975	37 374	2.75
	3 204	26	24/17	23 711	21 426	9 966	33 677	2.38
			27/19	25 343	22 989	10 170	35 513	2.49
			30/21	26 443	24 519	10 348	36 791	2.56

TEA : Entering air temperature (dry bulb/wet bulb).

Pt : Total cooling capacity.

Ps : Sensible cooling capacity.

Pabs : Compressor power input.

CR : Total heat rejection.

Heating Performance Data - SYSHRW 120

Nominal airflow 5 600 m³/h

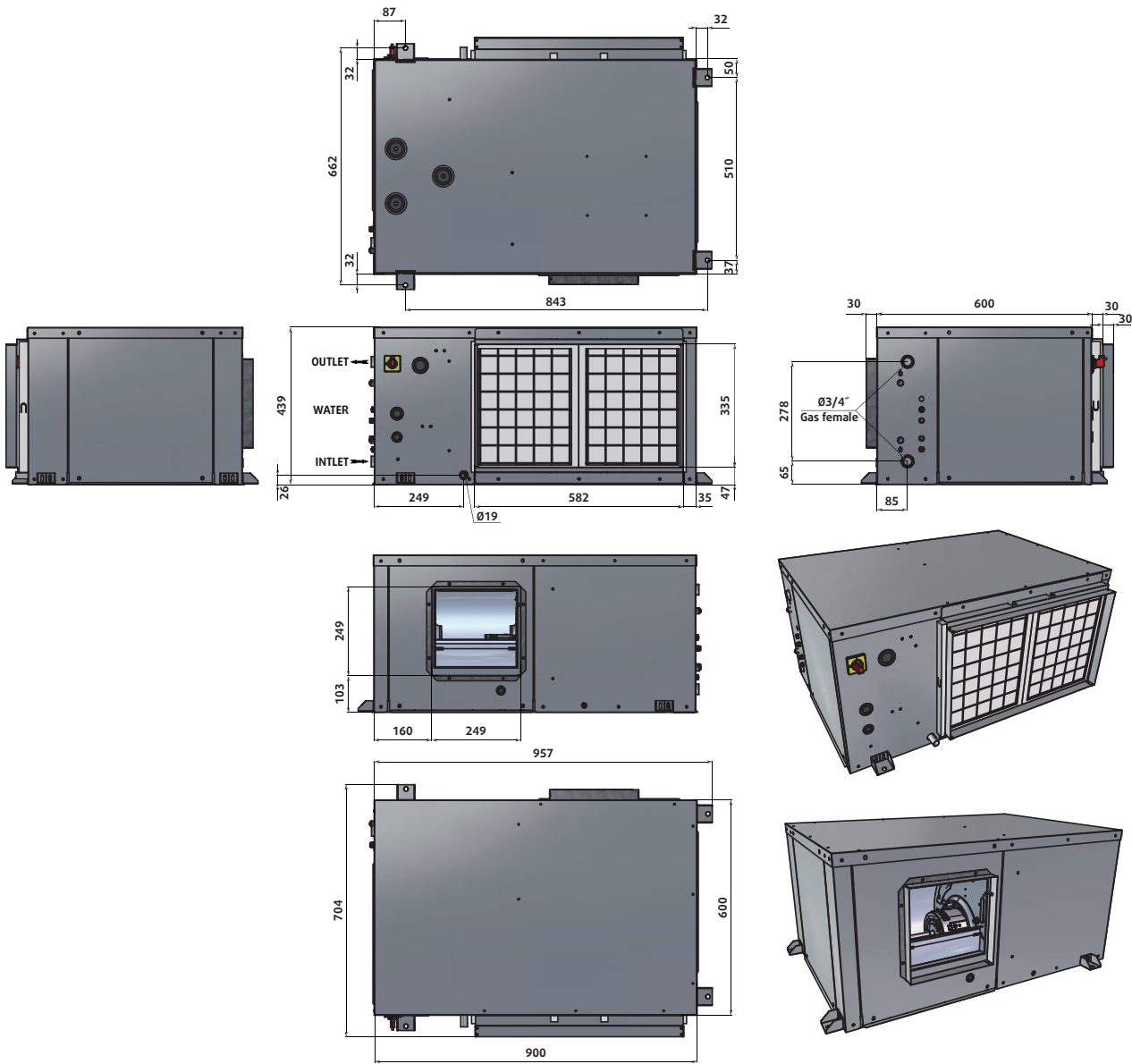
Entering Water Temp. (°C)	Water flow (l/h)	Water Pressure Drop (kPa)	Heating mode				
			TEA (°C)	Pc (W)	Pabs (W)	CA (W)	COP
13	6 408	80.5	16	32 381	7 538	24 843	4.30
			20	32 050	8 111	23 939	3.95
16	6 408	80.5	16	34 962	7 852	27 110	4.45
			20	34 584	8 444	26 140	4.10
	4 824	62	16	33 999	7 745	26 254	4.39
			20	33 618	8 329	25 289	4.04
20	6 408	80.5	16	38 486	8 237	30 249	4.67
			20	38 109	8 894	29 215	4.28
	4 824	62	16	37 323	8 101	29 222	4.61
			20	37 009	8 752	28 257	4.23
	3 204	26	16	35 236	7 897	27 339	4.46
			20	34 939	8 495	26 444	4.11
27	6 408	80.5	16	44 882	8 828	36 054	5.08
			20	44 438	9 573	34 865	4.64
	4 824	62	16	43 407	8 684	34 723	5.00
			20	43 047	9 420	33 627	4.57
	3 204	26	16	40 863	8 454	32 409	4.83
			20	40 598	9 171	31 427	4.43
30	6 408	80.5	16	47 764	9 045	38 719	5.28
			20	47 199	9 812	37 387	4.81
	4 824	62	16	46 157	8 925	37 232	5.17
			20	45 747	9 678	36 069	4.73
	3 204	26	16	43 460	8 727	34 733	4.98
			20	43 067	9 420	33 647	4.57
32	6 408	80.5	16	49 666	9 184	40 482	5.41
			20	49 130	9 958	39 172	4.93
	4 824	62	16	48 045	9 079	38 966	5.29
			20	47 573	9 844	37 729	4.83
	3 204	26	16	45 164	8 866	36 298	5.09
			20	44 794	9 611	35 183	4.66

TEA : Entering air temperature.
Pc : Heating capacity.

Pabs : Compressor power input.
CA : Total heat absorption.

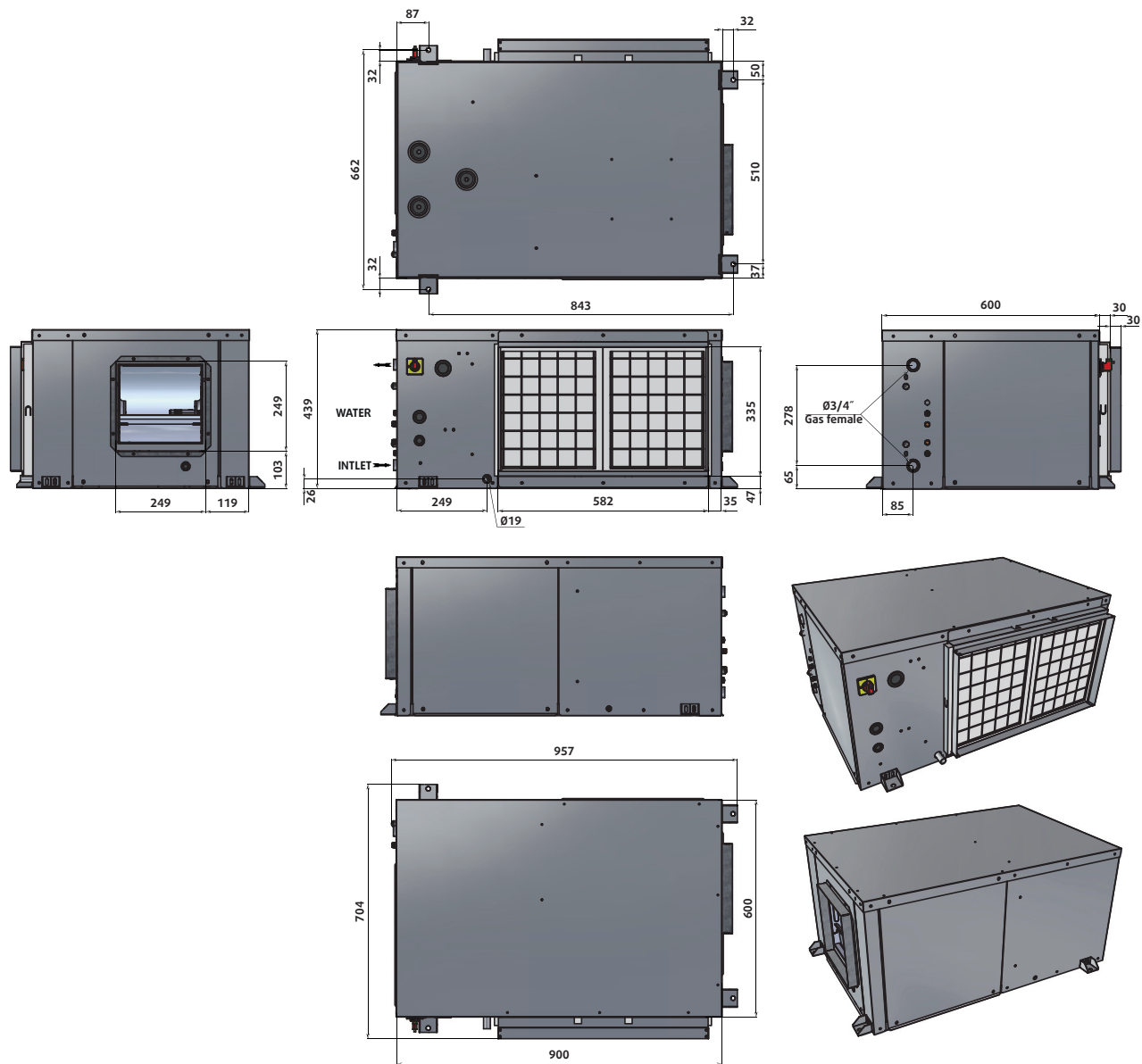
Dimensions (mm)

SYSHRW 19 - S1



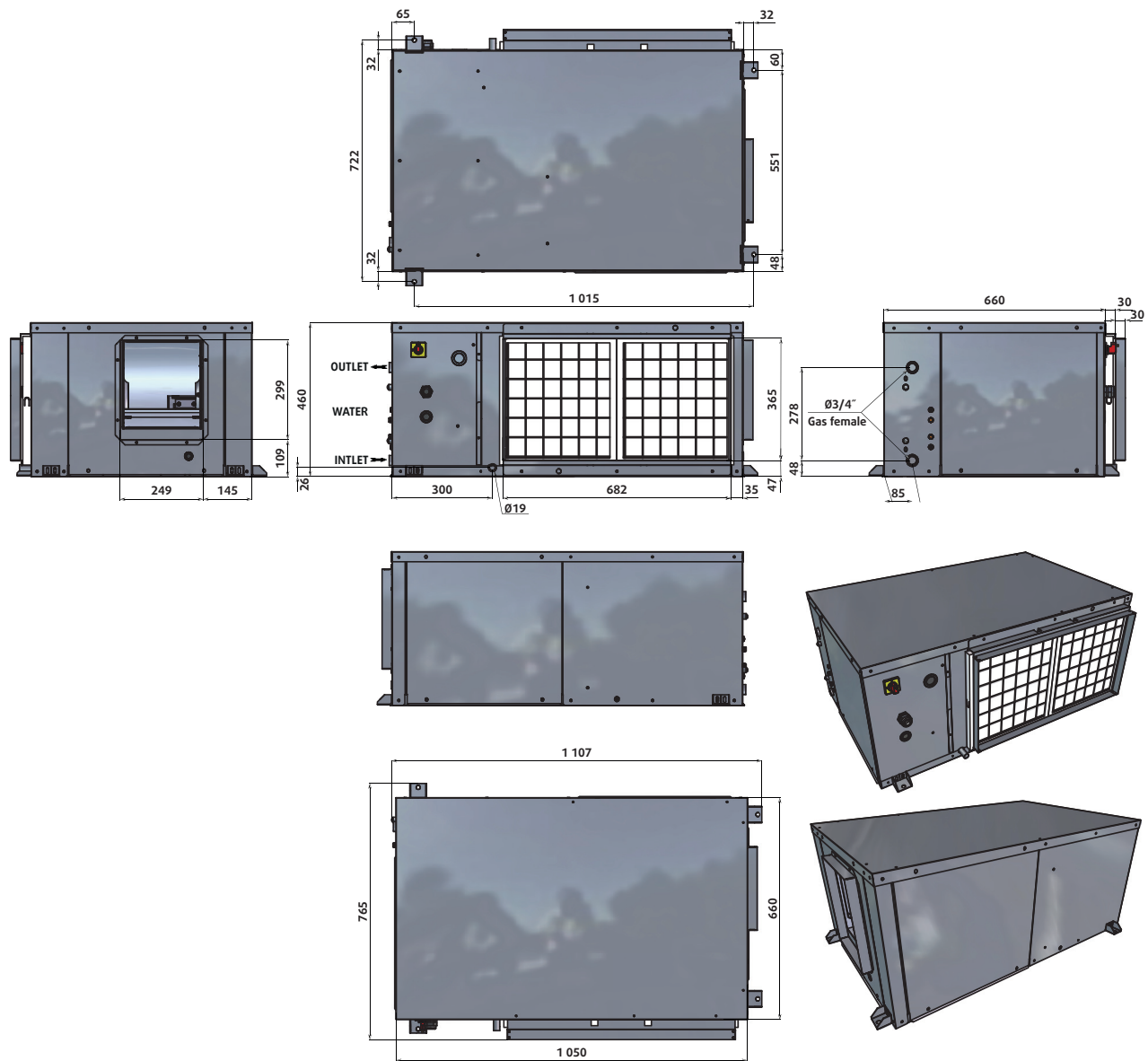
Dimensions (mm) - (continued)

SYSHRW 19 - S2



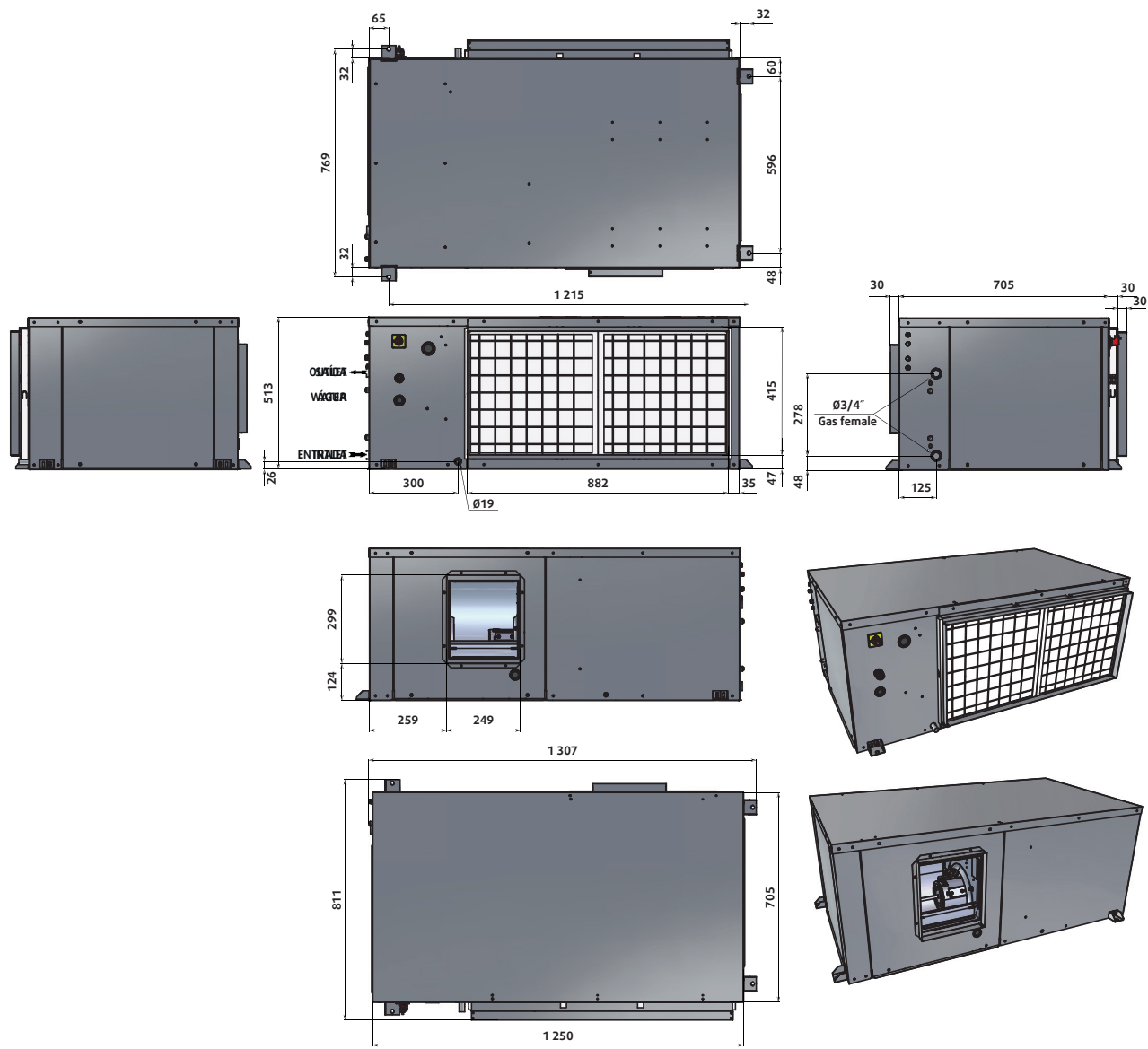
Dimensions (mm) (continued)

SYSHRW 27 / 27HE / 30 / 30HE / 36 - S2



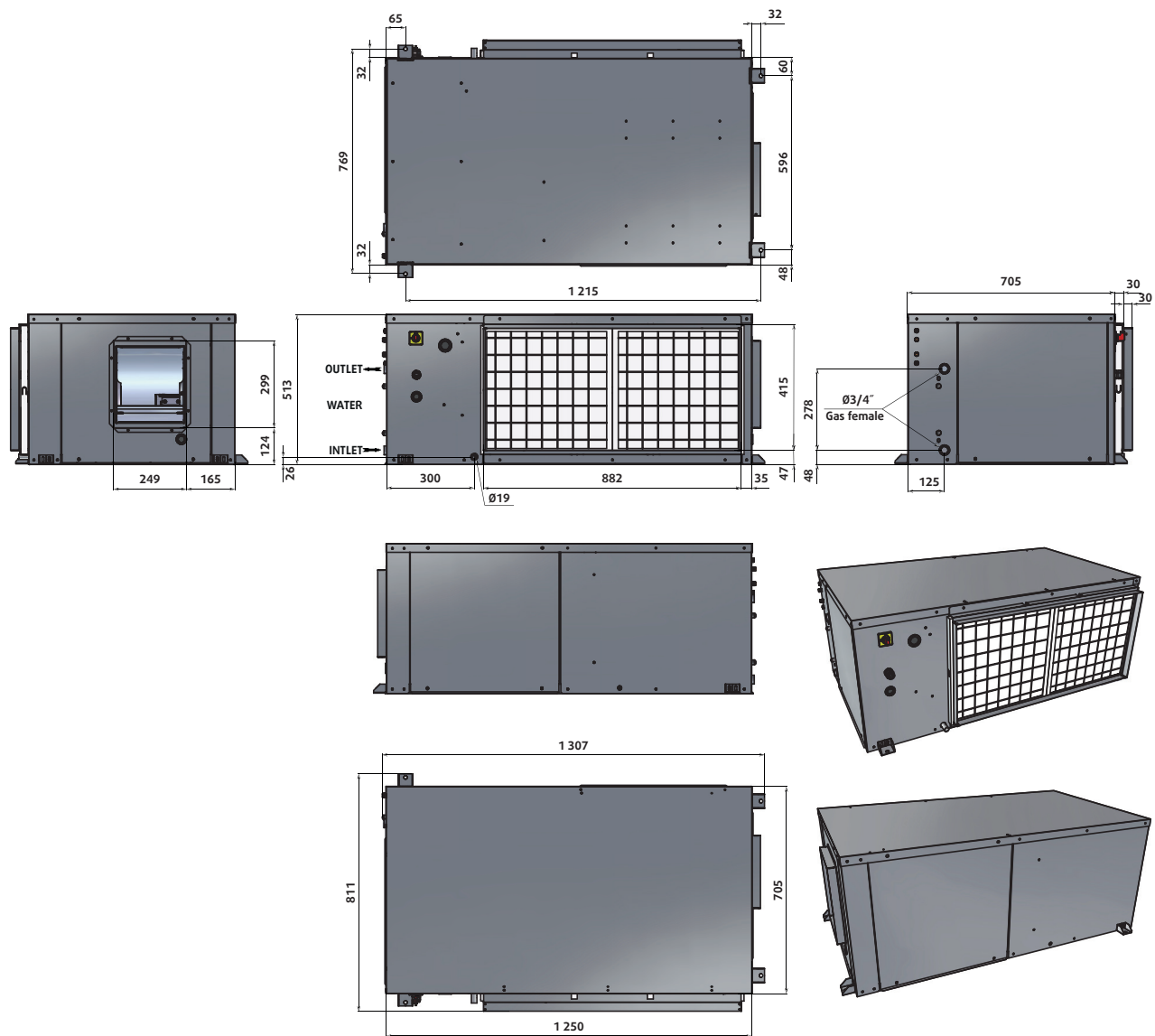
Dimensions (mm) (continued)

SYSHRW 36HE / 42 / 42HE - S1



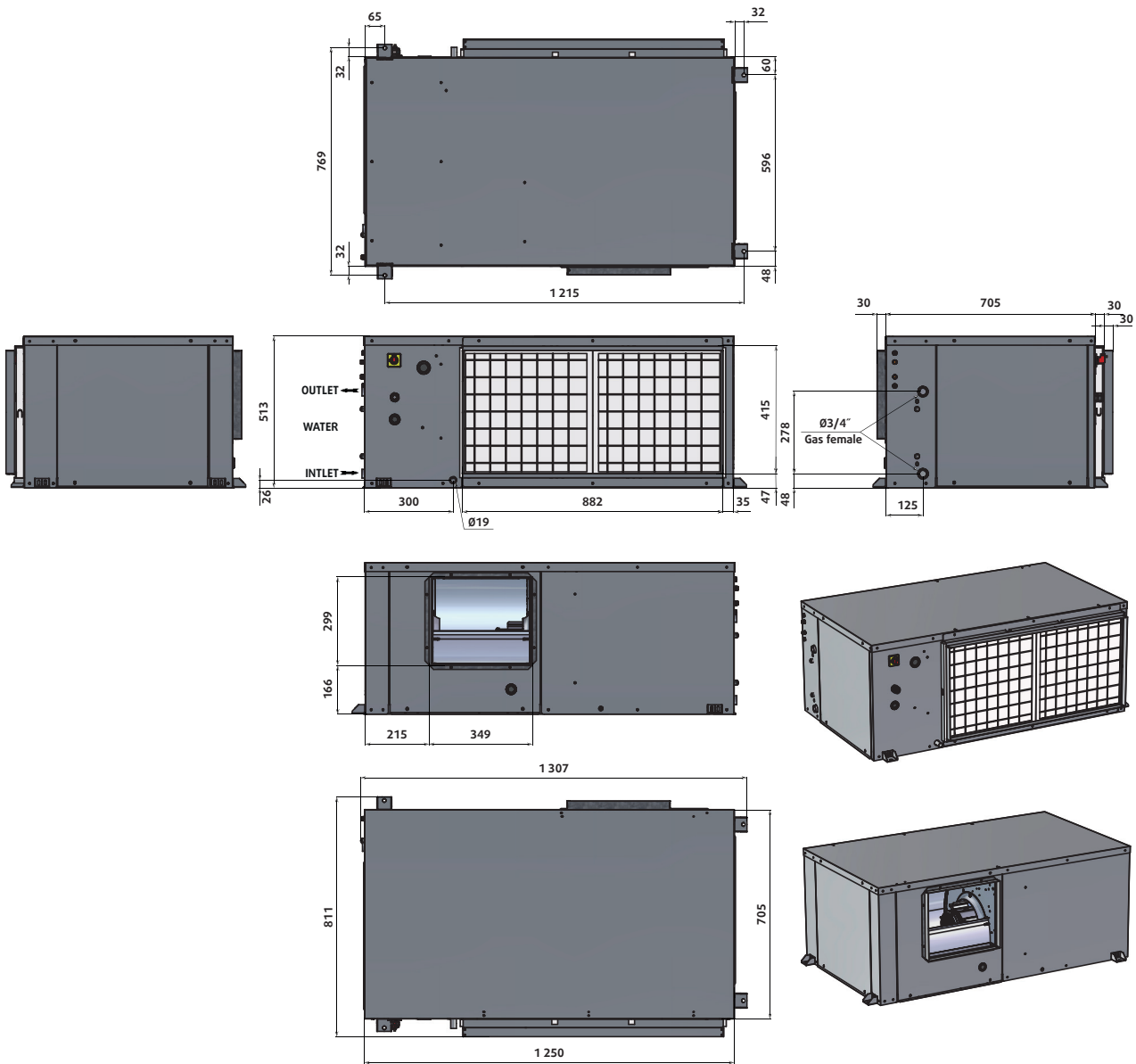
Dimensions (mm) (continued)

SYSHRW 36HE / 42 / 42HE - S2



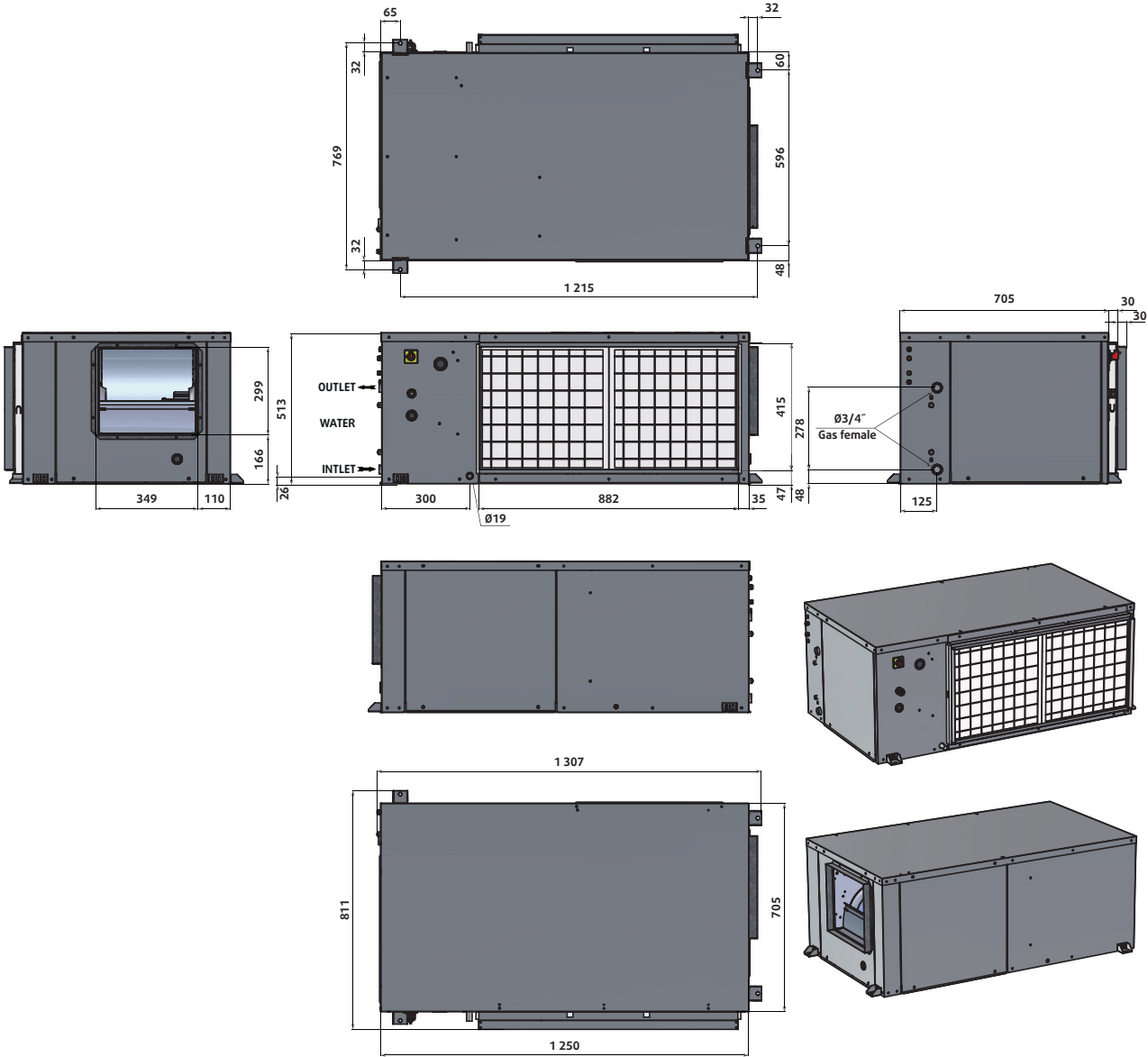
Dimensions (mm) (continued)

SYSHRW 48 / 60 / 72 - S1



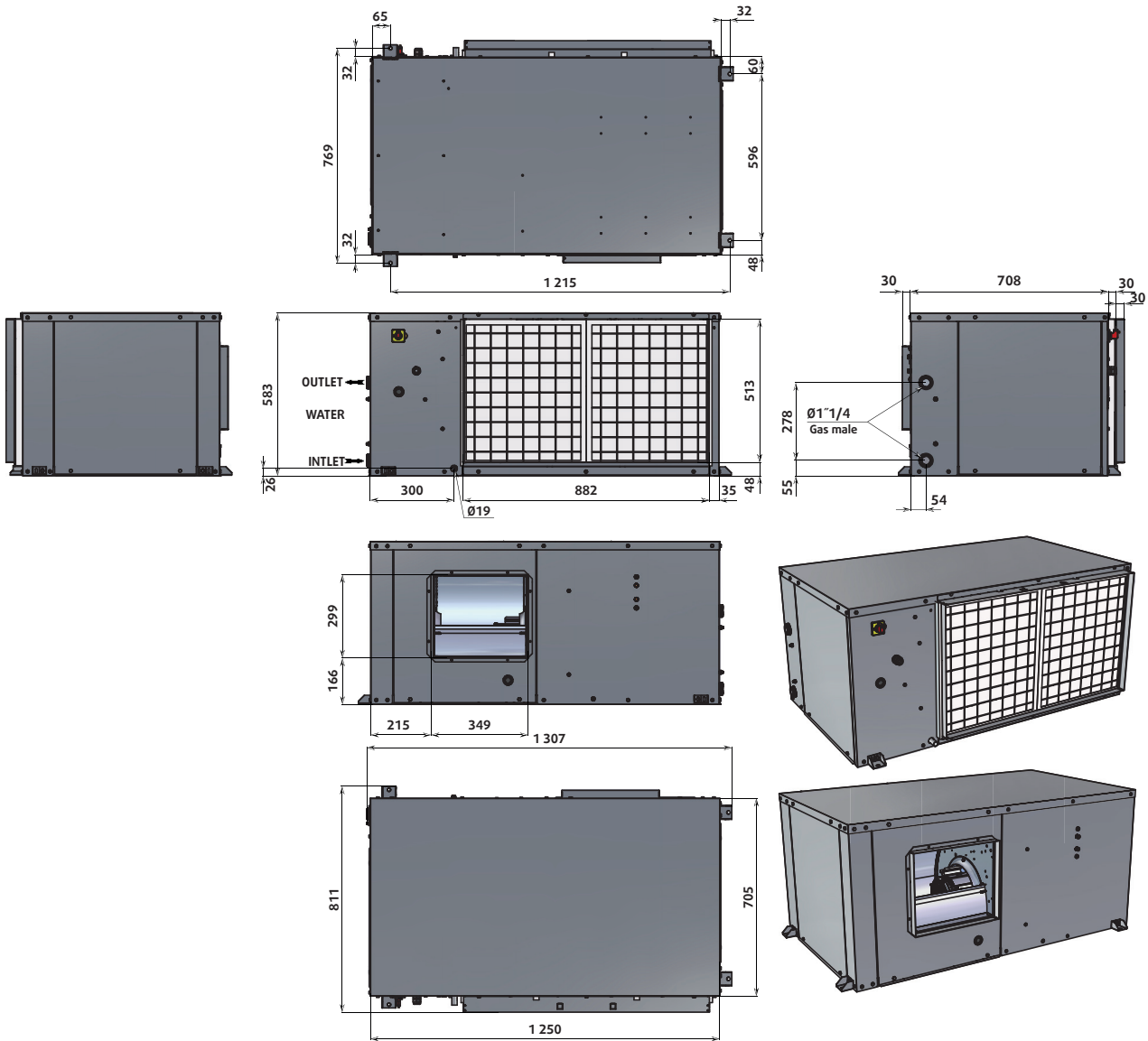
Dimensions (mm) (continued)

SYSHRW 48 / 60 / 72 - S2



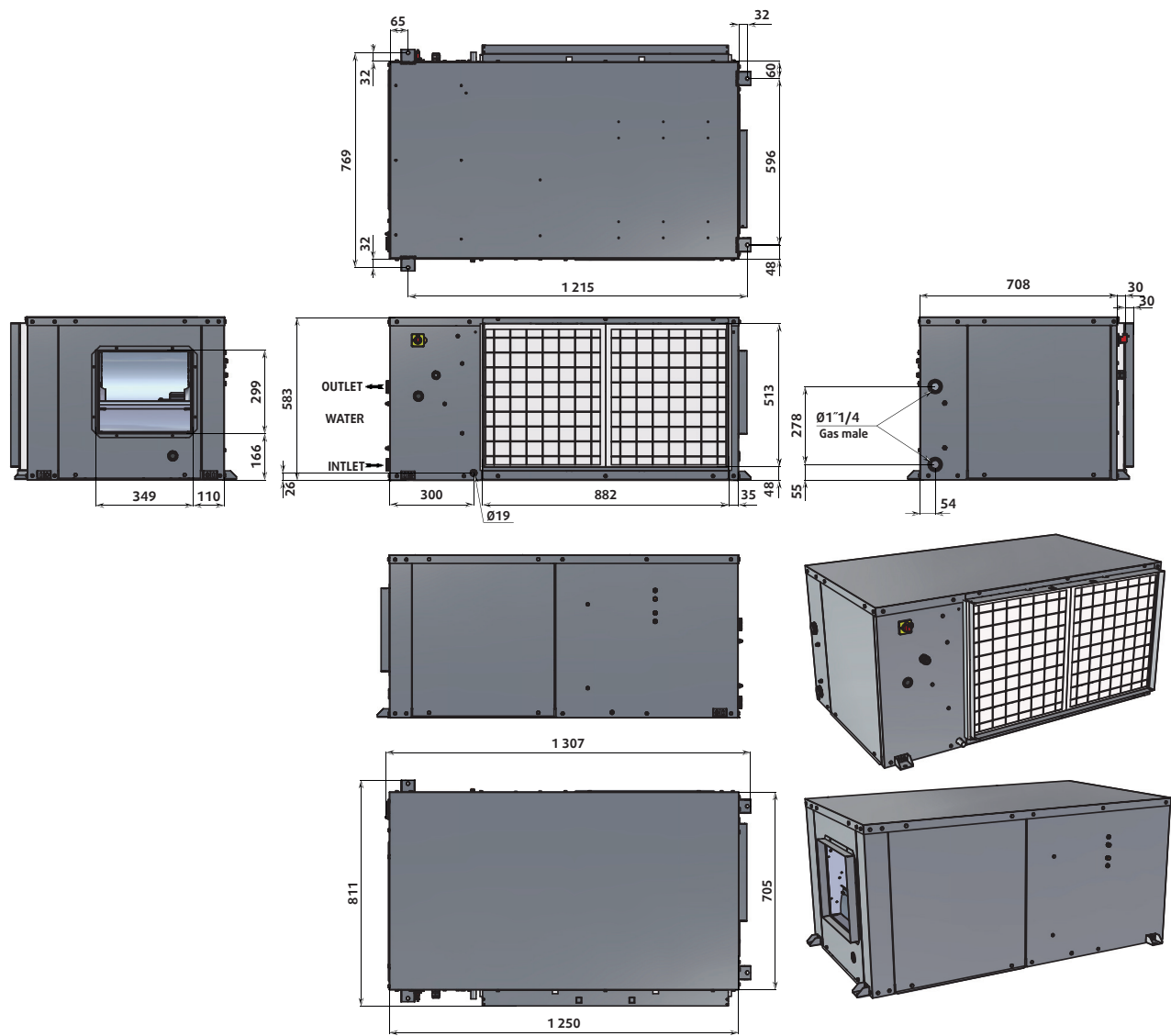
Dimensions (mm) (continued)

SYSHRW 60HE - S1



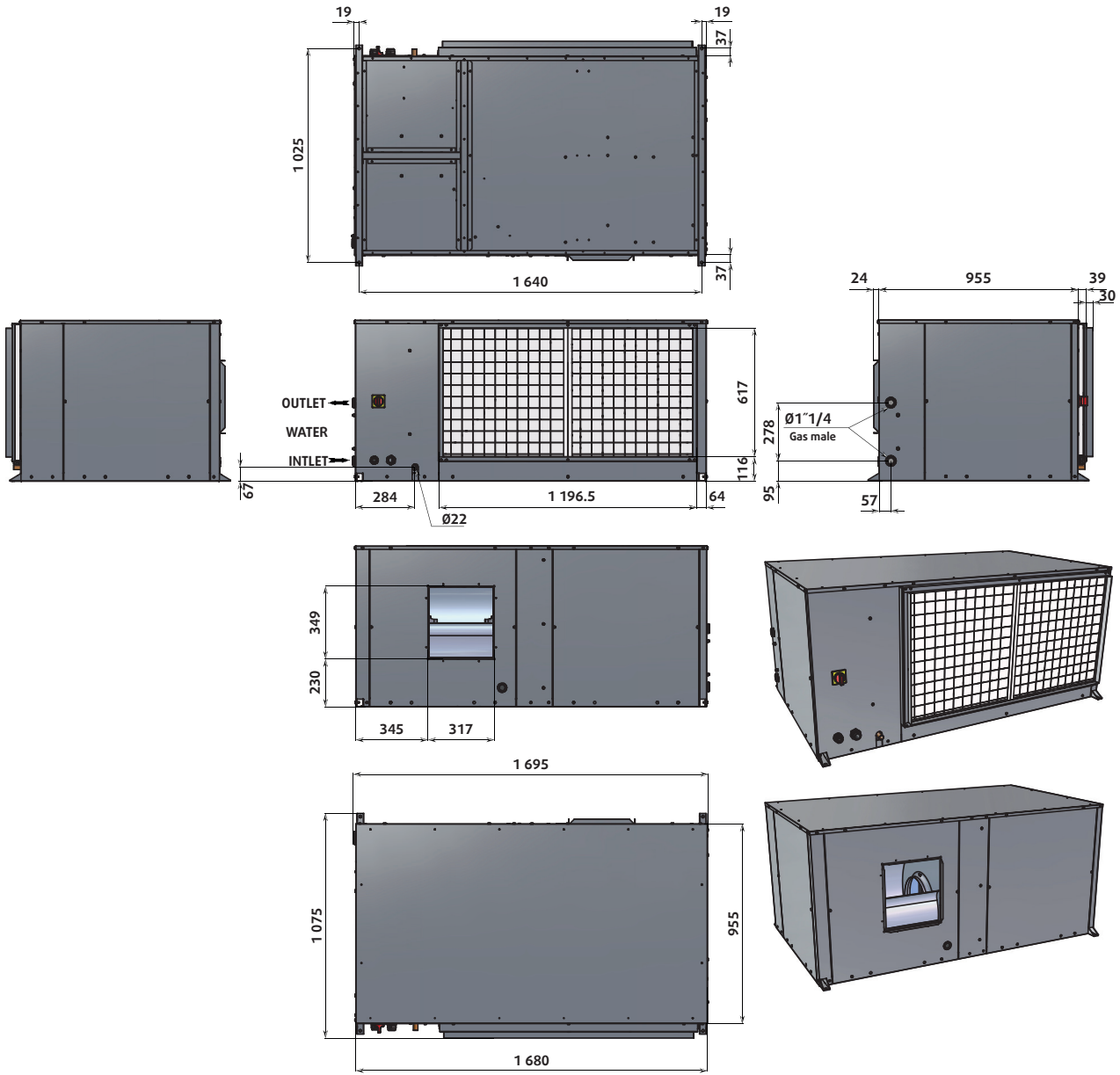
Dimensions (mm) (continued)

SYSHRW 60HE - S2



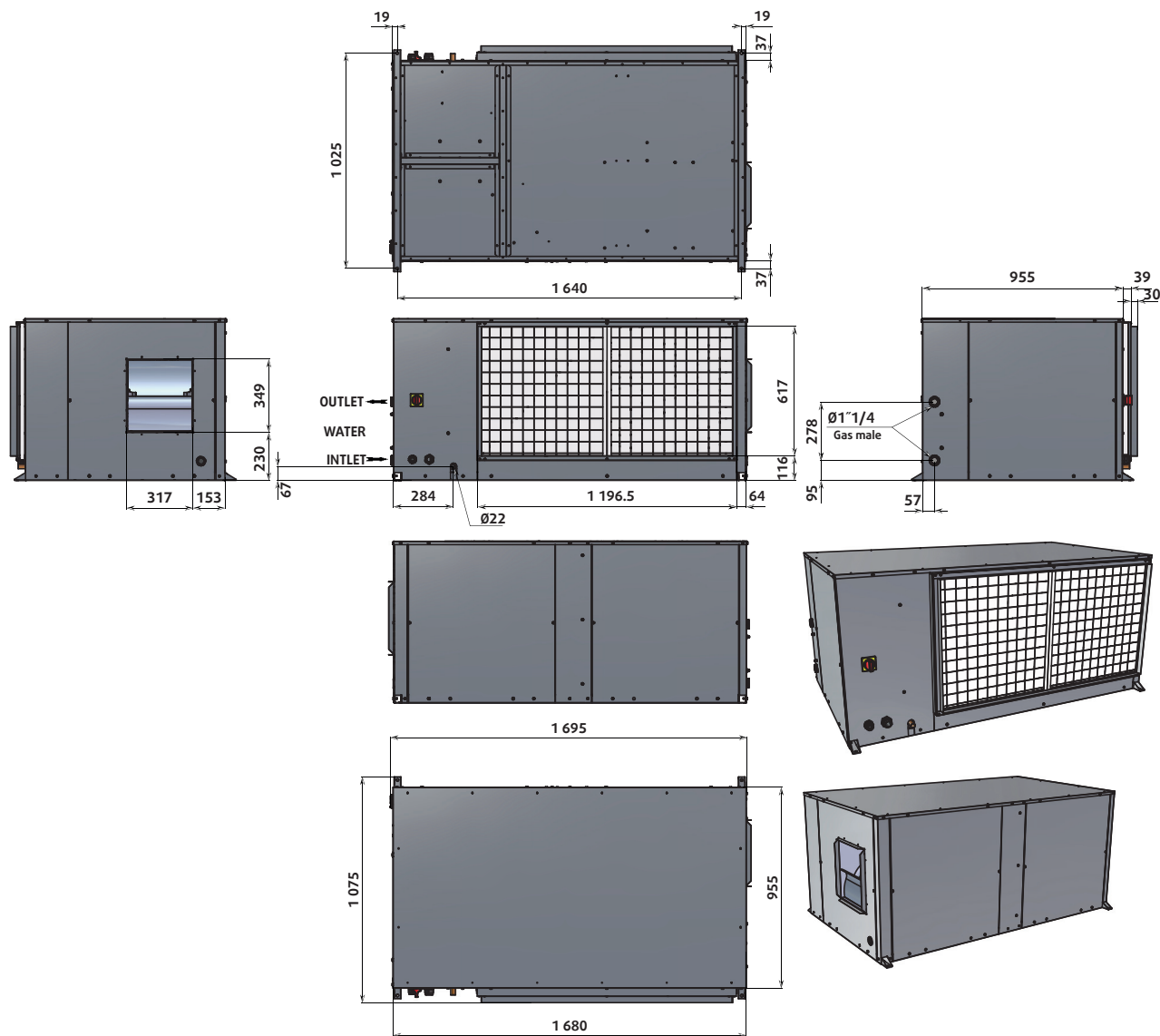
Dimensions (mm) (continued)

SYSHRW 72HE - S1



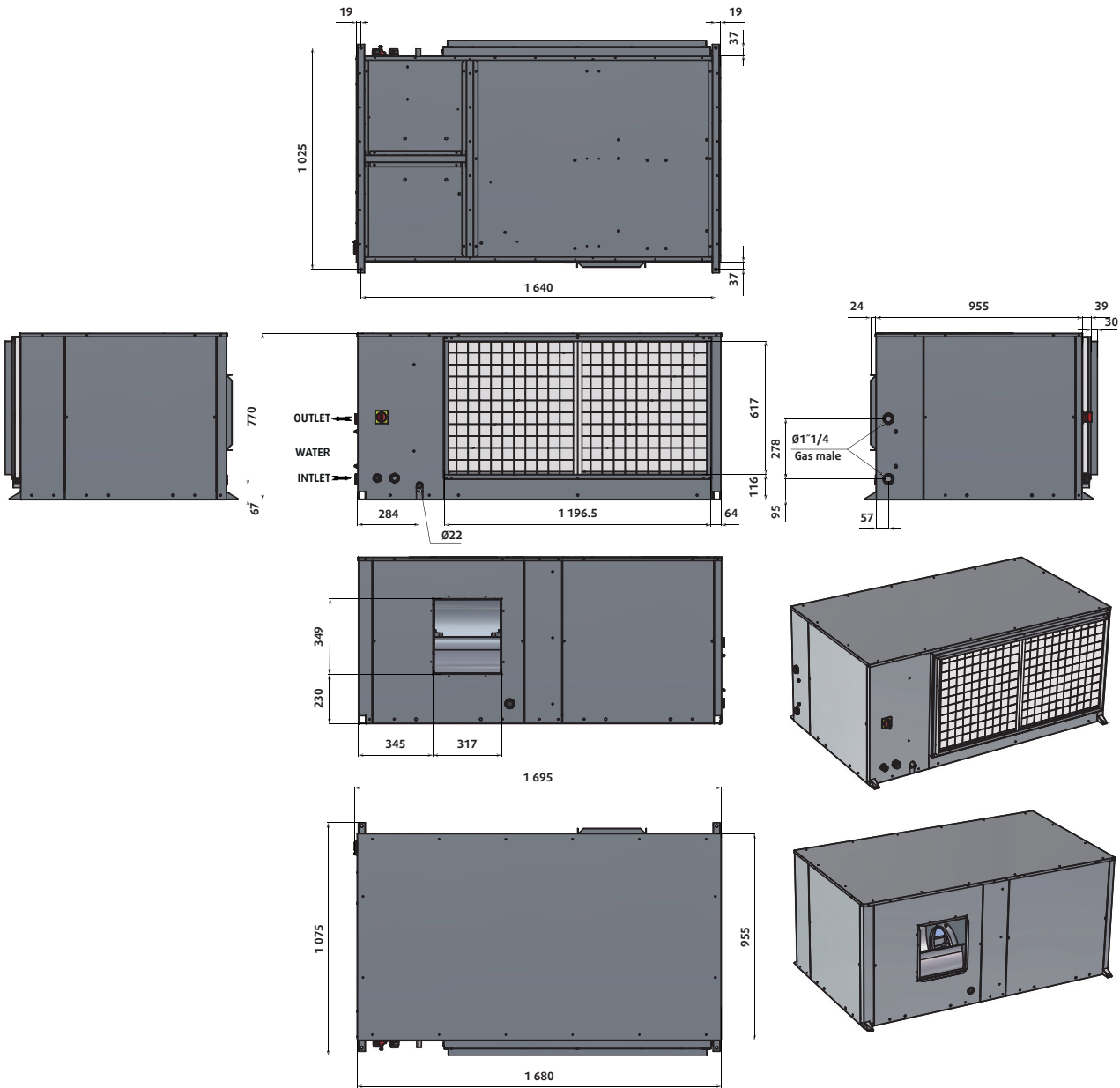
Dimensions (mm) (continued)

SYSHRW 72HE - S2



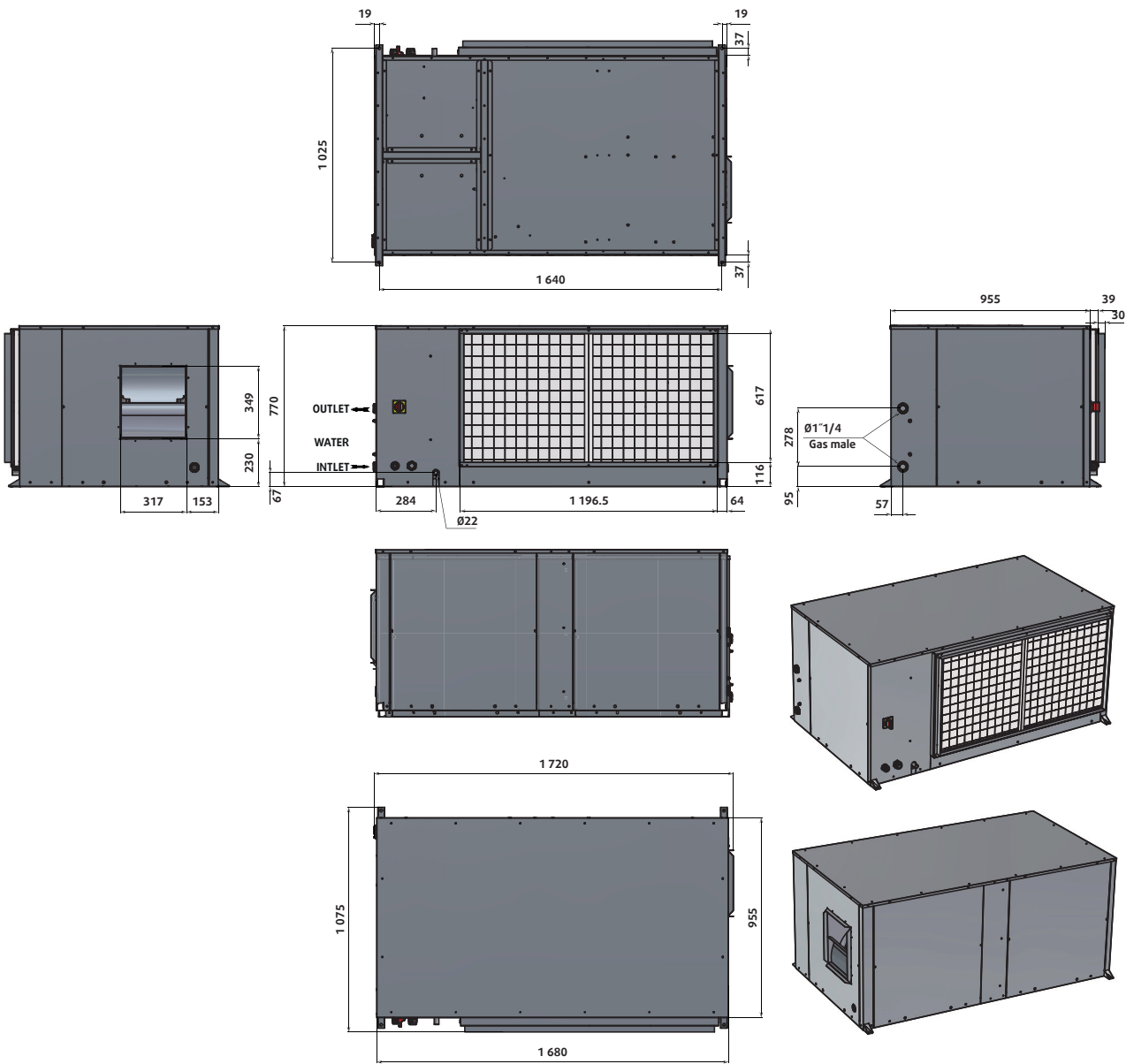
Dimensions (mm) (continued)

SYSHRW 96 / 96HE - S1



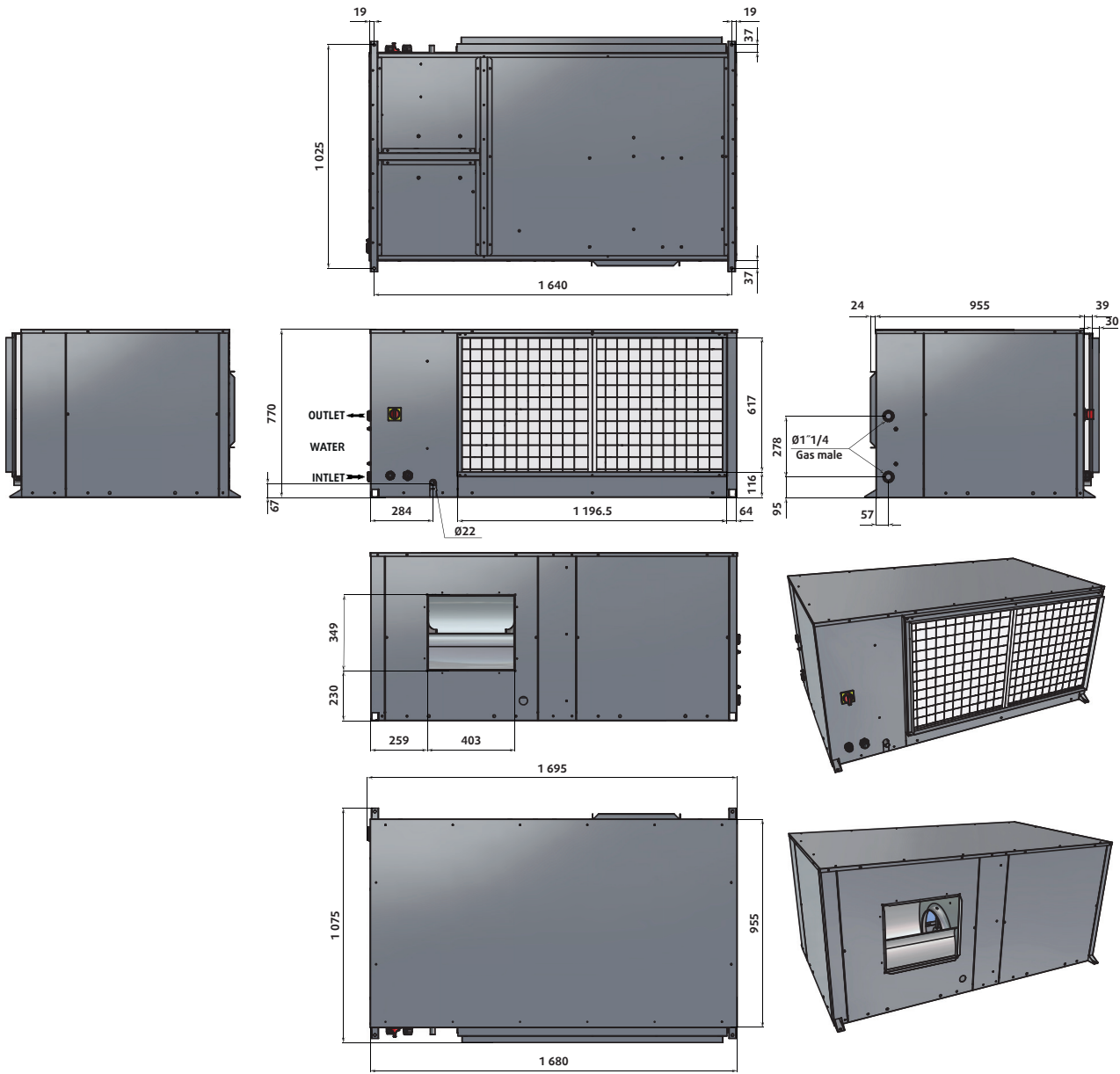
Dimensions (mm) (continued)

SYSHRW 96 / 96HE - S2



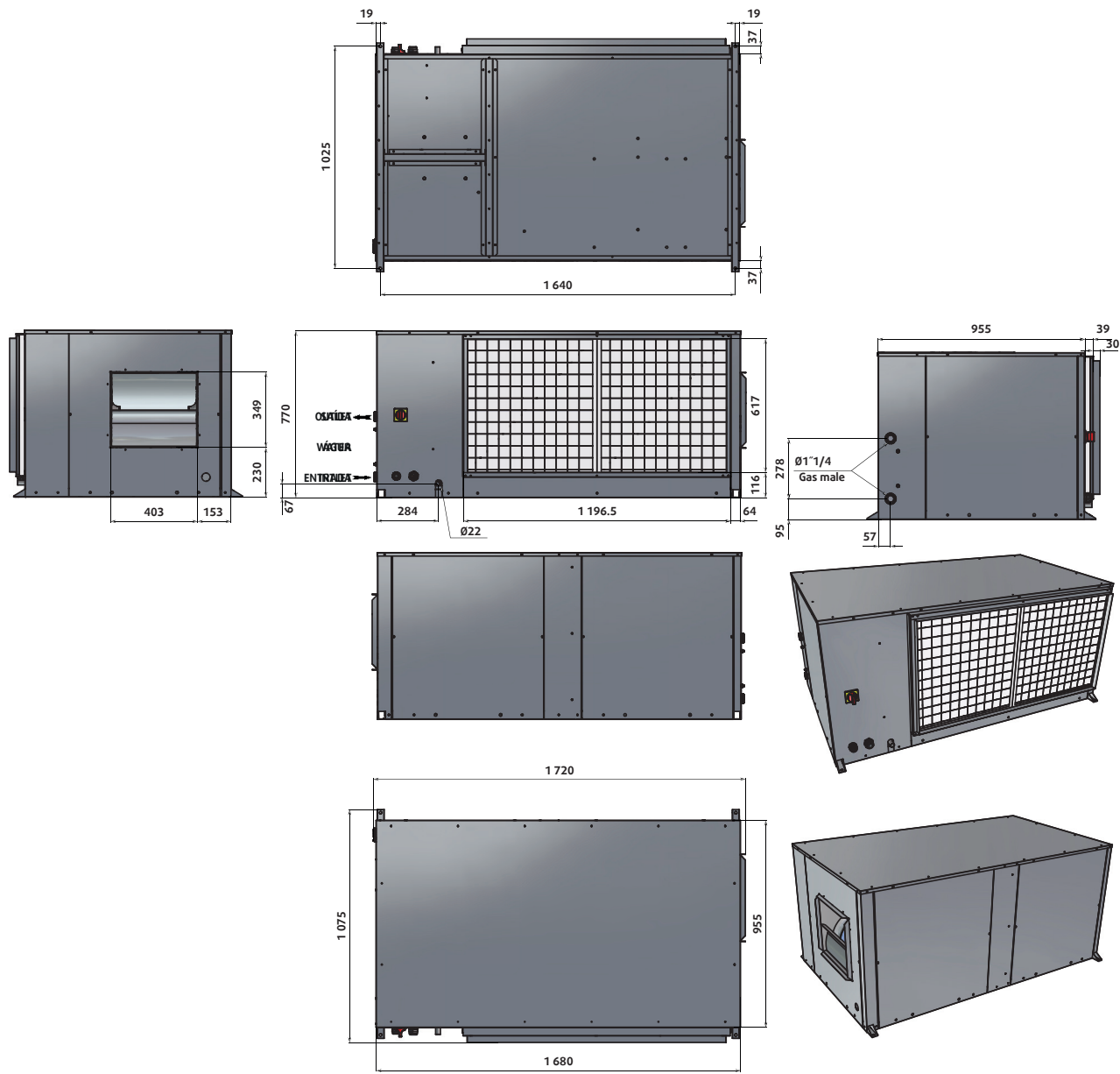
Dimensions (mm) (continued)

SYSHRW 120 - S1



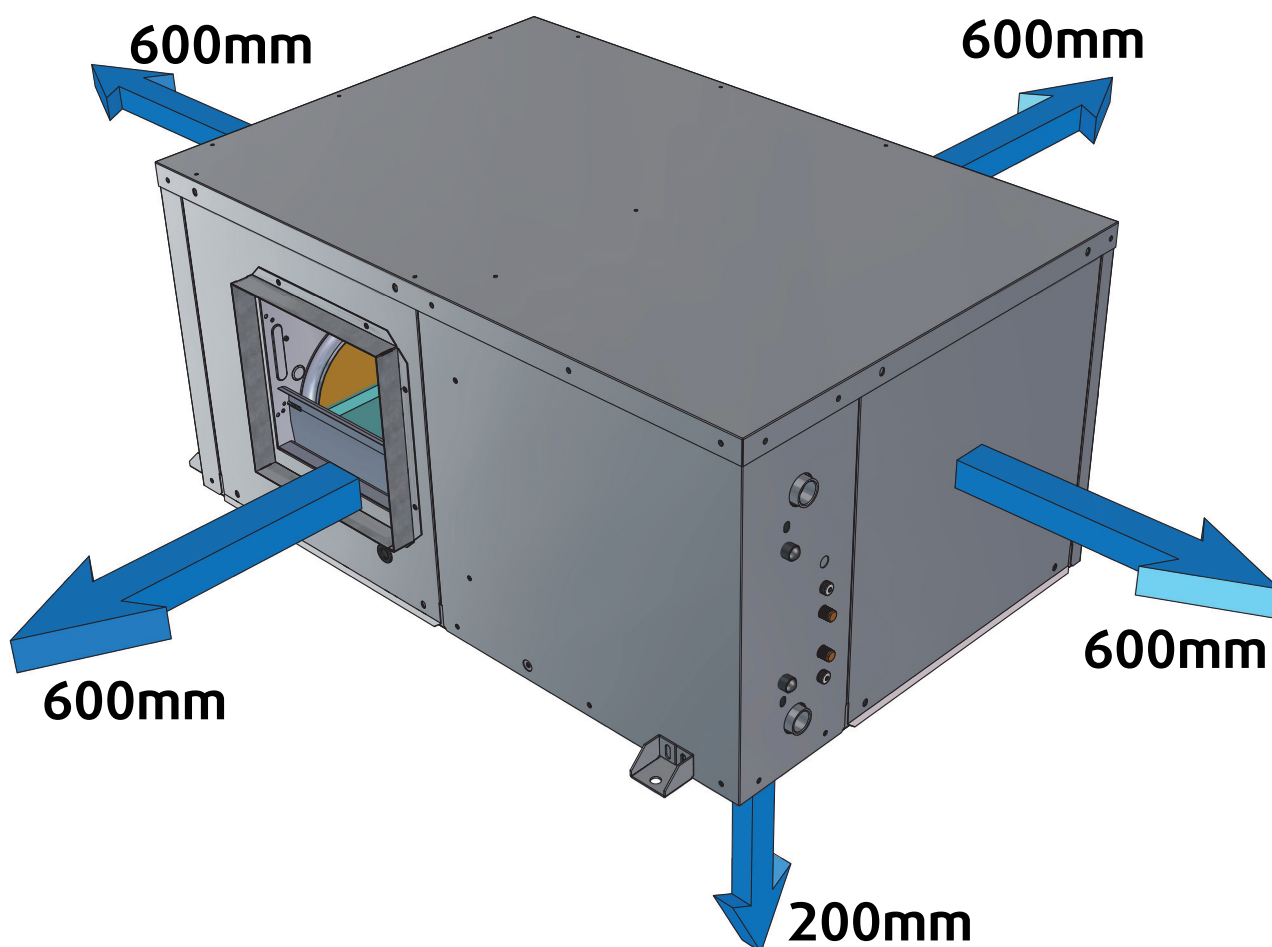
Dimensions (mm) (continued)

SYSHRW 120 - S2



Minimum Installation Clearances

When installing the unit, leave enough side clearances for service and maintenance works (see figure below) in order to easily remove the filter and the access panels of electrical box, compressor, fan. Also, leave enough space for water, electricity and duct connection.



Notes

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