

Electrical wiring diagram for ventilation unit



Wiring for DVCompact unit with following functions:

Heat exchanger: Crossflow

Heating: Electric (EL)

Cooling: Softcooler

Recirculation: Optional

VAV Air control: Optional

Revision: 2.2

Revision date: 08.06.2015

Prepared by: GECE

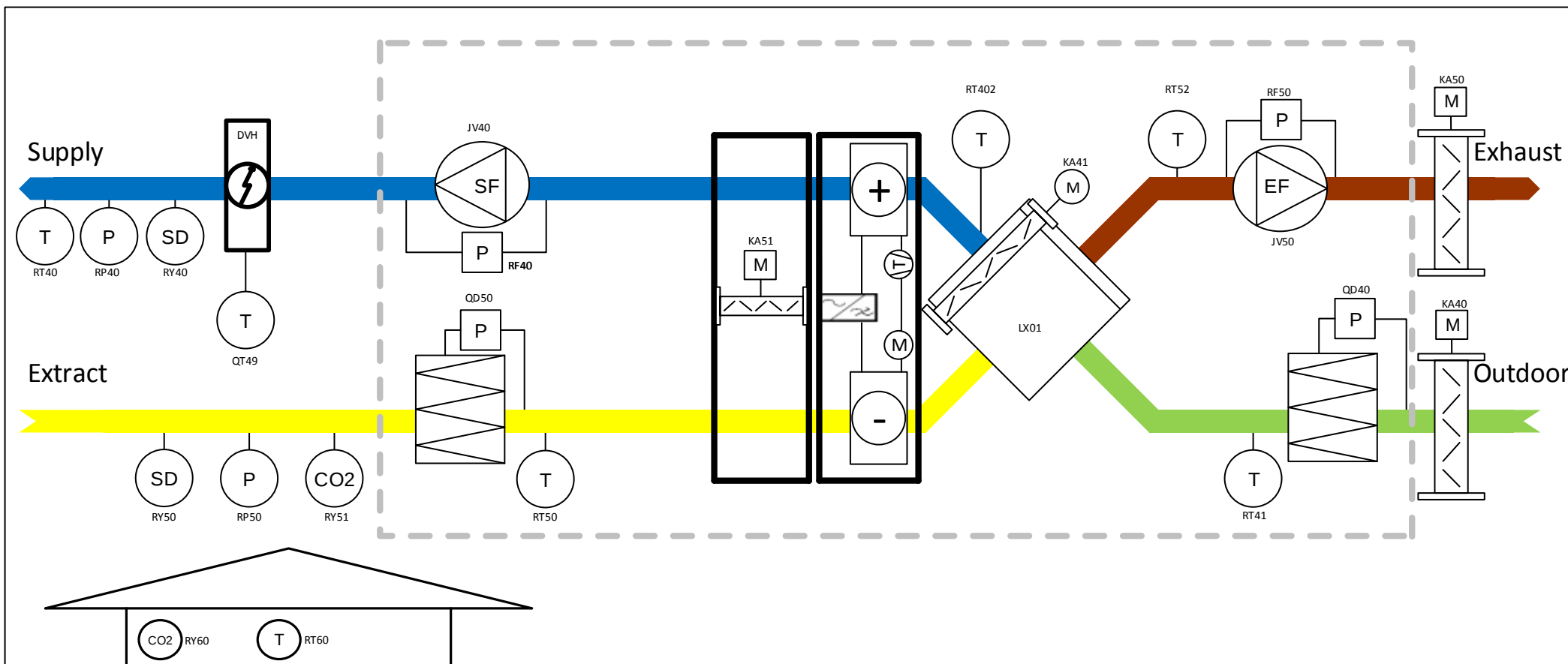
Contents

1. Front page
2. Flow chart
3. Power circuit
4. Communication Bus
5. Basic Connection
6. Connection for Heating
7. Connection for Cooling
8. Connection for Extra Sensors, Functions
9. Sections connection wiring diagram
10. Sections connection wiring diagram
11. External connections



*Picture is only for illustration. The picture might be different from the delivered unit.

EN



JV50 Extract Fan (EAF)
 JV40 Supply fan (SAF)
 LX01 Heat exchanger
 KA40 Damper, outdoor air
 KA50 Damper, exhaust air
 KA41 Damper, cross flow exchanger bypass
 KA51 Damper, mixing
 SB41 Cooling coil valve
 SB40 Heating coil valve
 QT49 El. Heater Thermostat
 SB42 Change over coil valve

RT40 Temperature sensor, supply
 RT41 Temperature sensor, outdoor
 RT50 Temperature sensor, extract
 RT402 Efficiency Temperature Sensor
 RT52 Temperature sensor, de-icing
 RT55 Temperature sensor, frost protection
 RT60 Room temp sensor

RY40 Smoke detector supply
 RY50 Smoke detector extract
 RY51 CO2 duct sensor
 RY60 CO2 room sensor

QD40 Supply Air filter guard
 QD50 Extract Air filter guard
 RF40 Pressure transmitter, supply fan
 RF50 Pressure transmitter, extract fan
 RP40 Pressure transmitter, supply air duct (option - VAV only)
 RP50 Pressure transmitter, extract air duct (option - VAV only)

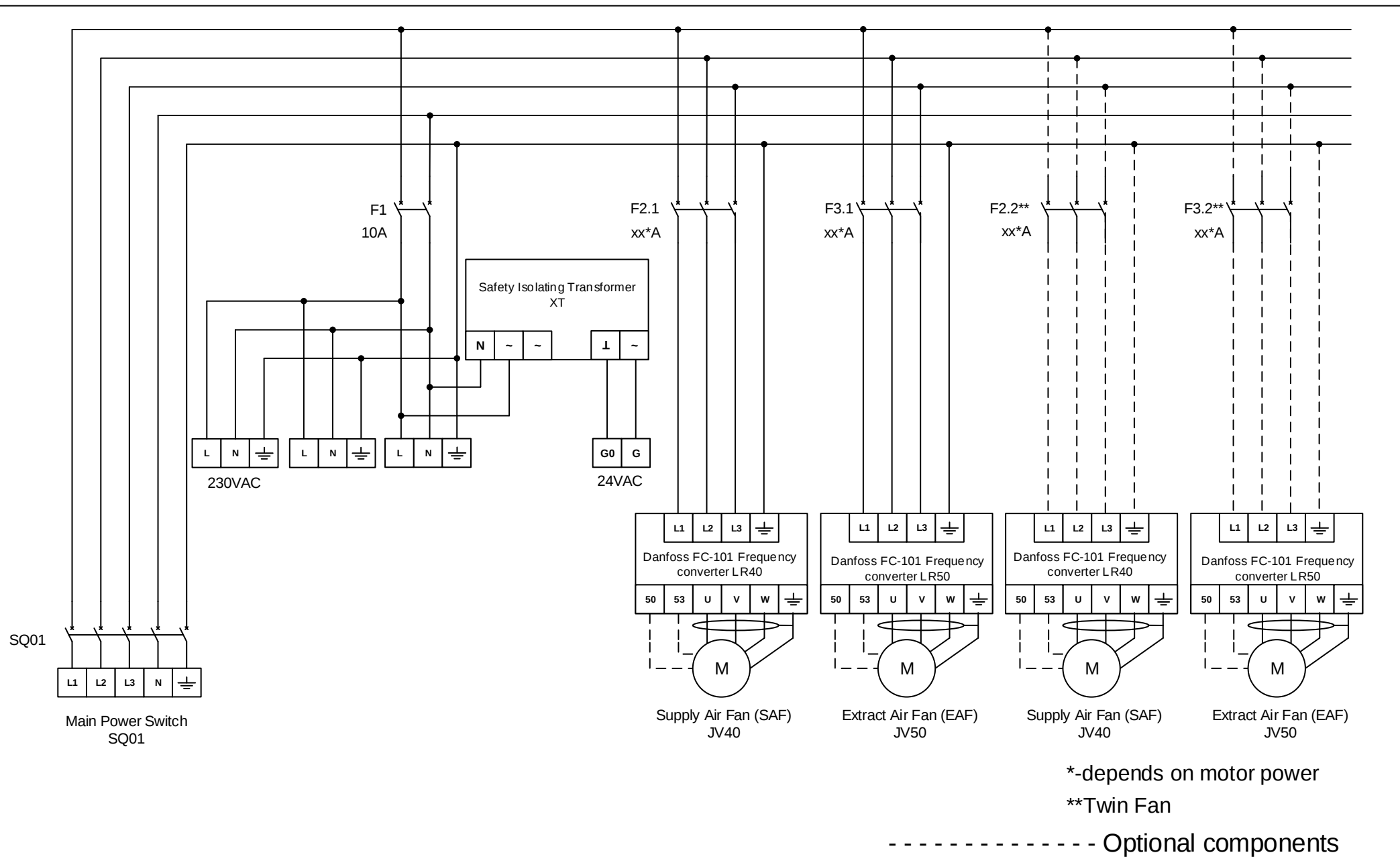
*Symbols and flowchart is exclusively for explanation.
 This is not a component list for the delivered unit

Revision: 2.2
 Revision date: 08.06.2015
 Prepared by: GECE

Wiring for DVCCompact unit with following functions:

Heat exchanger: Crossflow
 Heating: Electric (EL)
 Cooling: Softcooler
 Recirculation: Optional

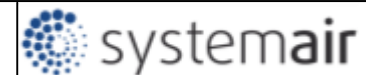
Flow chart

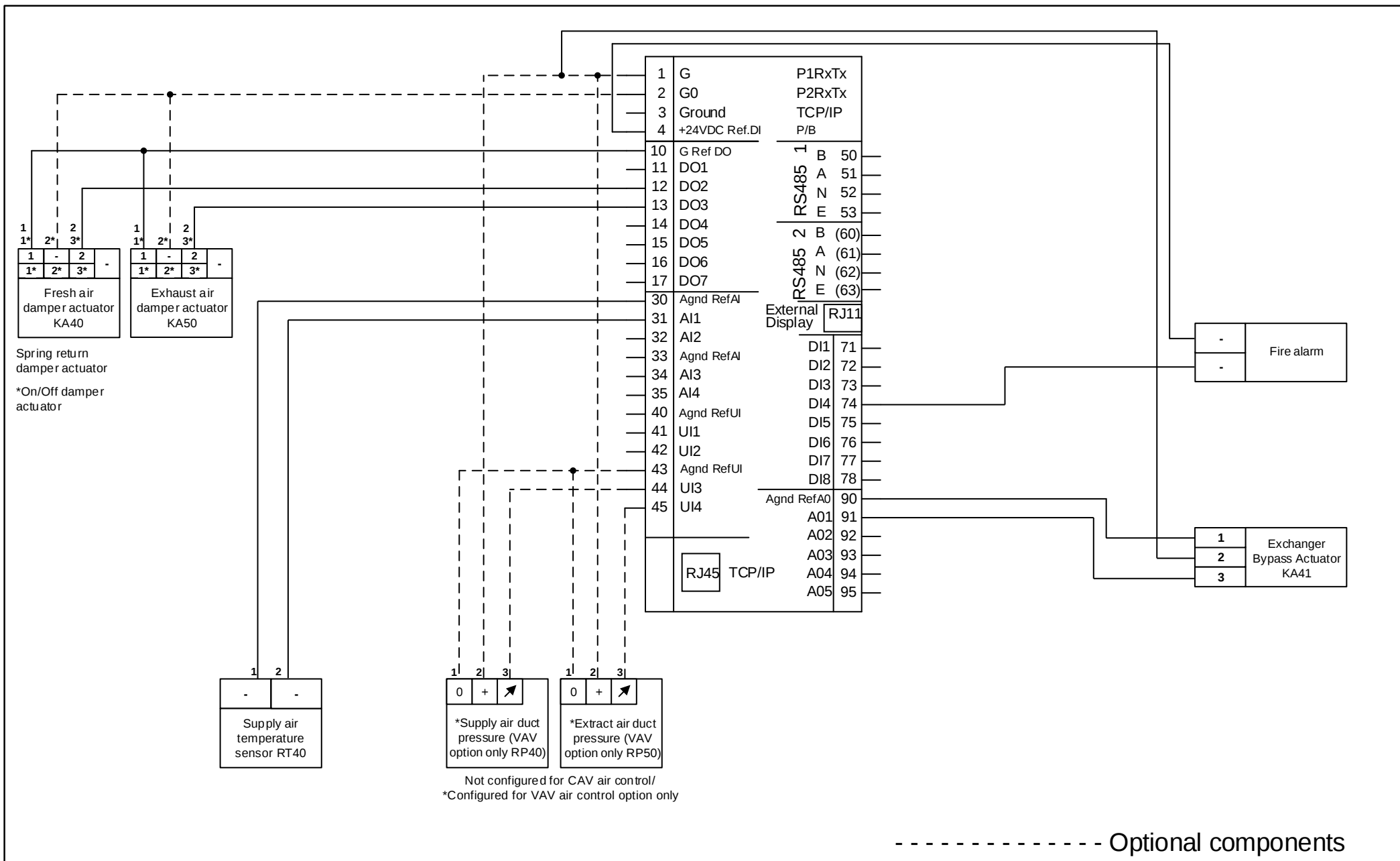


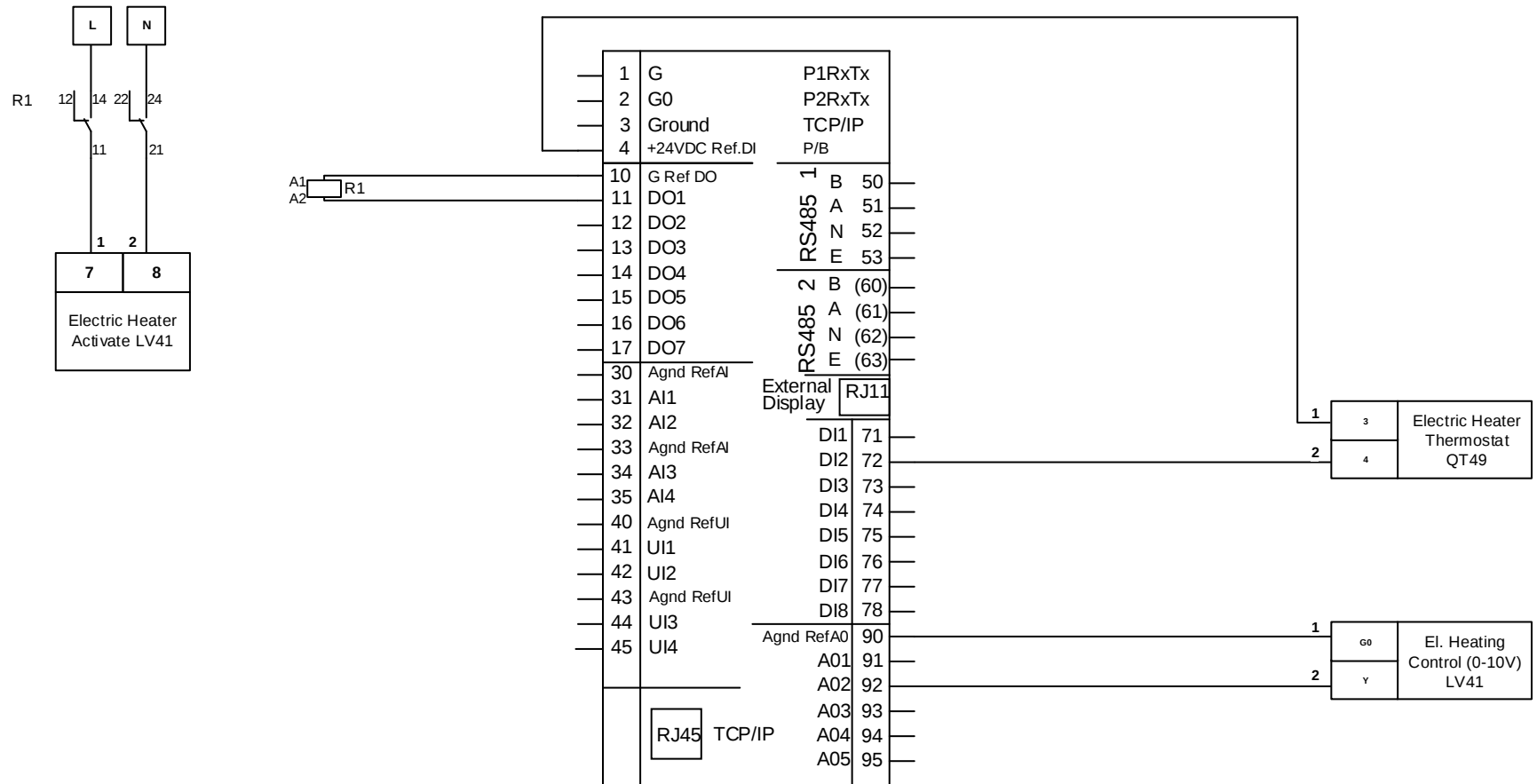
Revision: 2.2
 Revision date: 08.06.2015
 Prepared by: GECE

Wiring for DVCompact unit with following functions:
 Heat exchanger: Crossflow
 Heating: Electric (EL)
 Cooling: Softcooler
 Recirculation: Optional

Power circuit





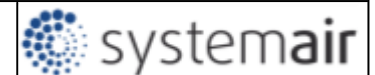


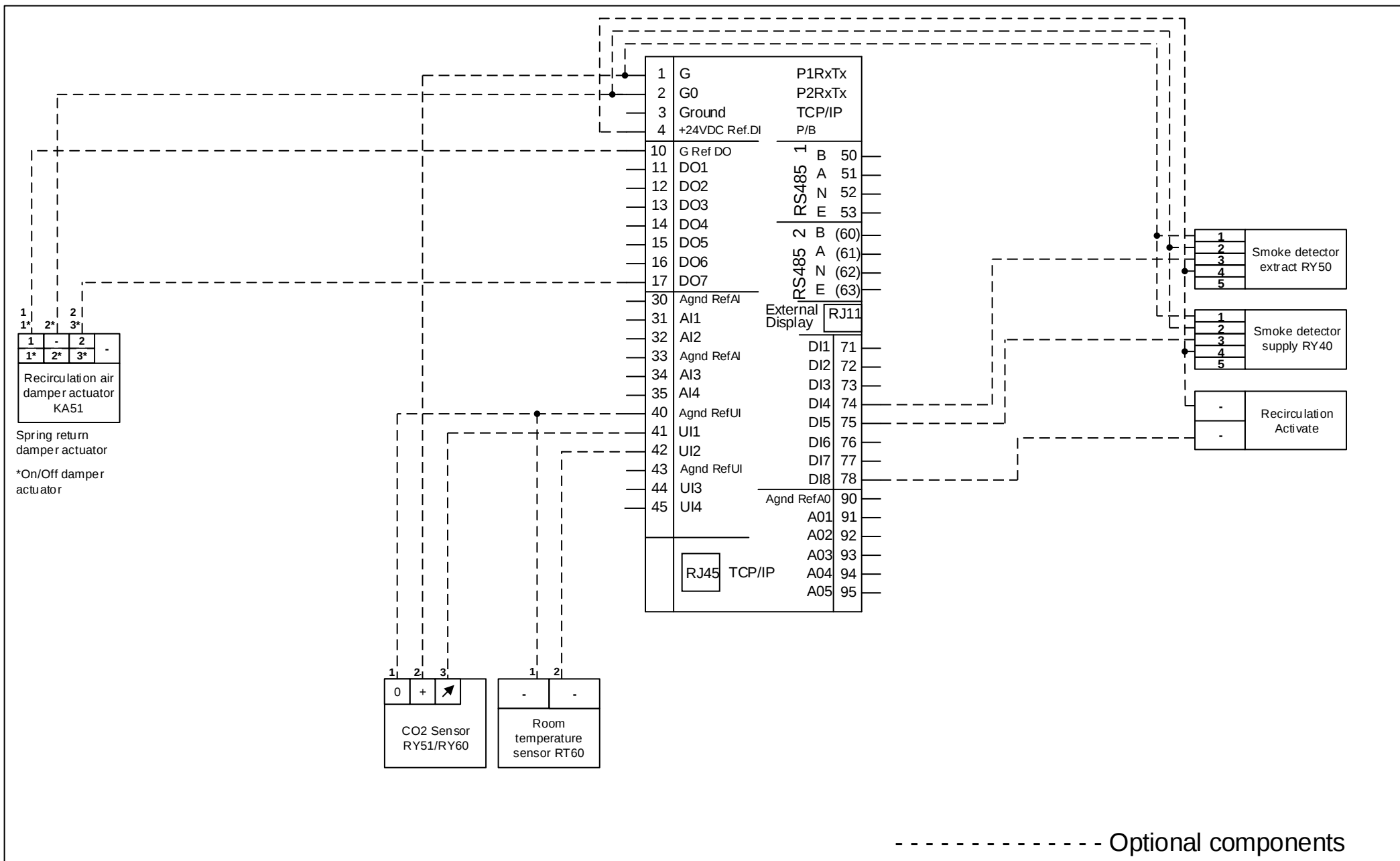
----- Optional components

Revision: 2.2
Revision date: 08.06.2015
Prepared by: GECE

Wiring for DVCompact unit with following functions:
Heat exchanger: Crossflow
Heating: Electric (EL)
Cooling: Softcooler
Recirculation: Optional

Connection for Heating





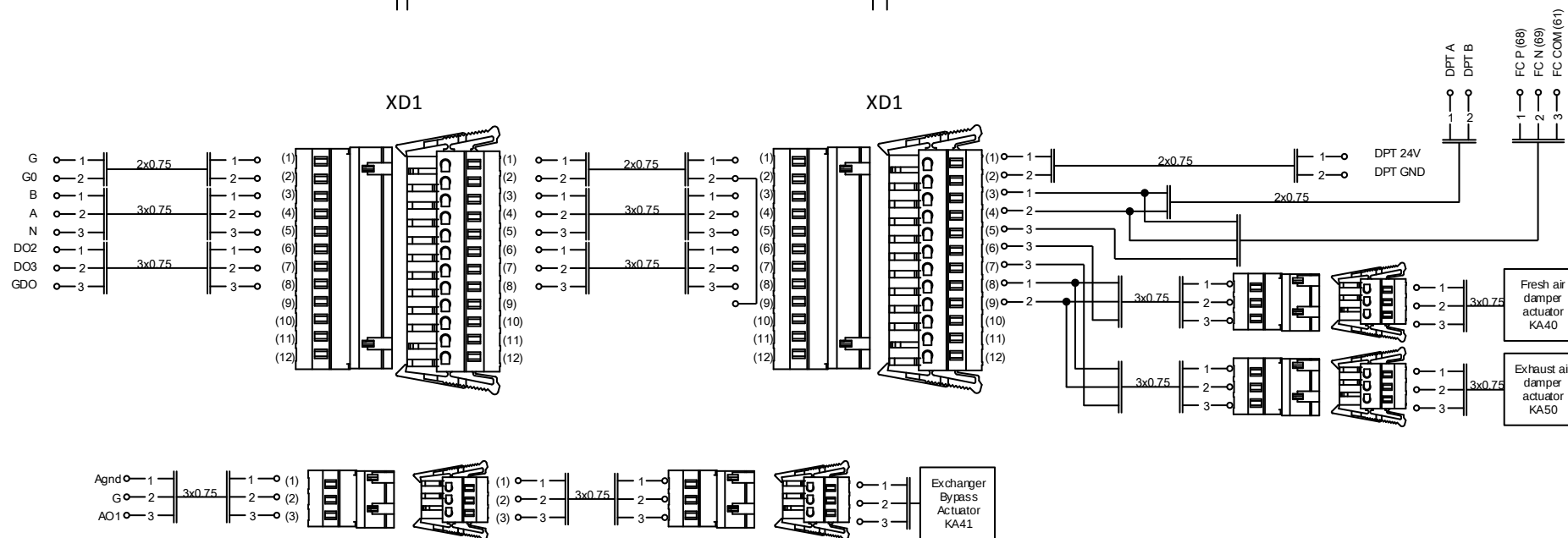
Supply air direction

*Additional AHU sections
See page 10

SAF Section

Heat Exchanger Section

EAF Section



----- Optional components

Revision: 2.2
Revision date: 08.06.2015
Prepared by: GECE

Wiring for DVCompact unit with following functions:

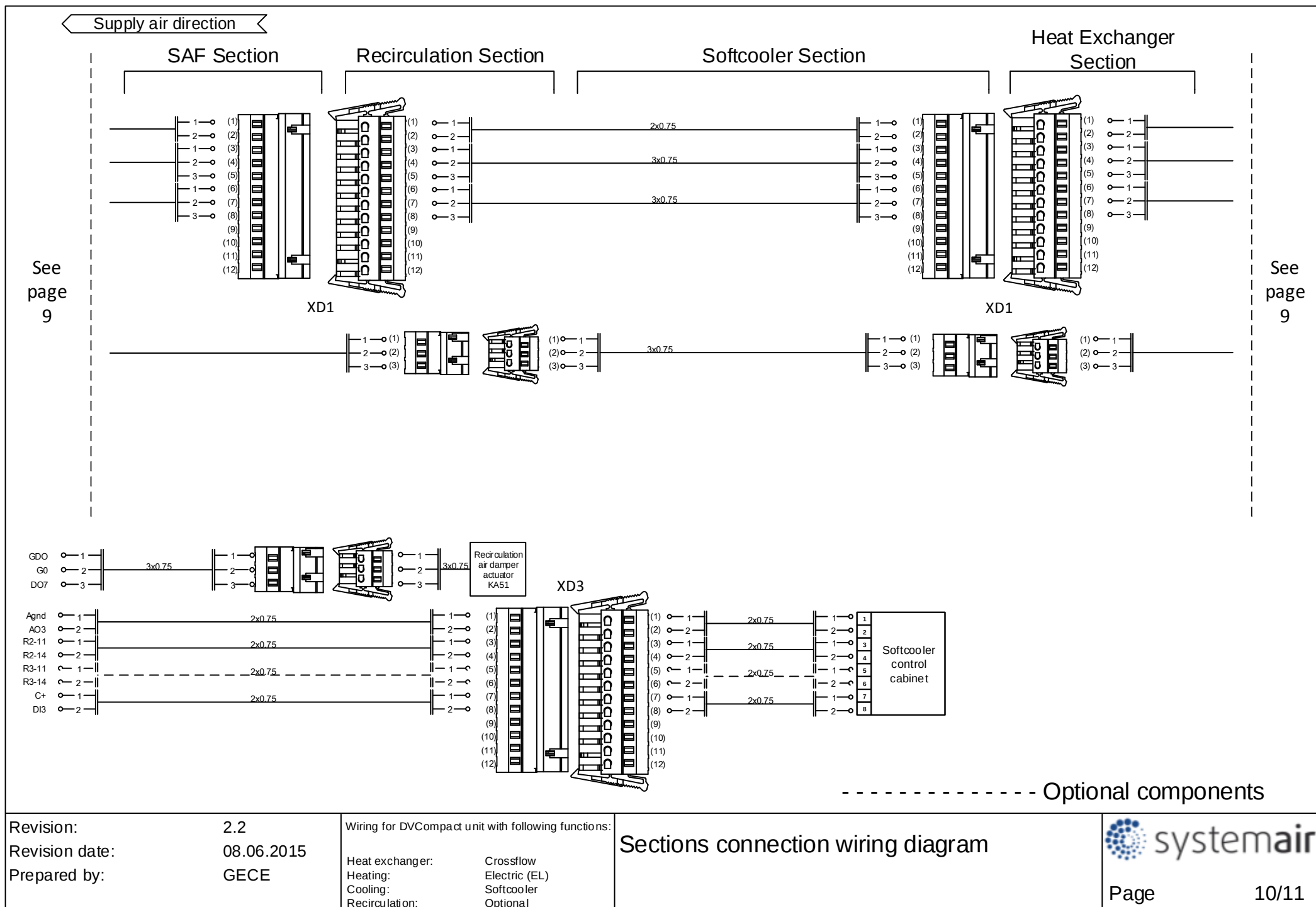
Heat exchanger: Crossflow
Heating: Electric (EL)
Cooling: Softcooler
Recirculation: Optional

Sections connection wiring diagram

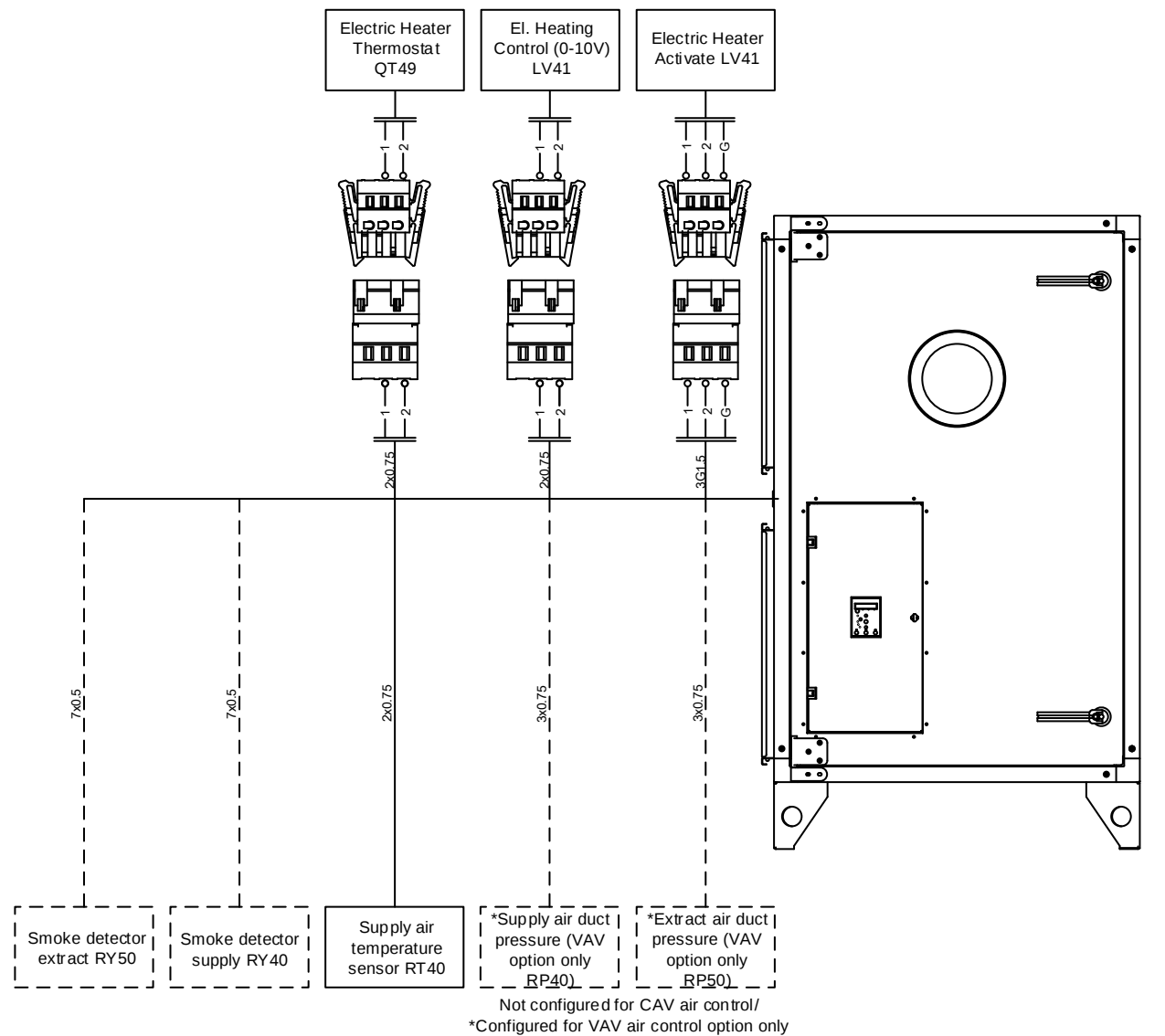


Page

9/11



Supply air direction



----- Optional components

Revision: 2.2
 Revision date: 08.06.2015
 Prepared by: GECE

Wiring for DVCompact unit with following functions:

Heat exchanger:	Crossflow
Heating:	Electric (EL)
Cooling:	Softcooler
Recirculation:	Optional

External connections

