

QVANTUM QE - DOCKING PRINCIPLES

QVANTUM QE - DOCKING PRINCIPLES

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QE heat pumps

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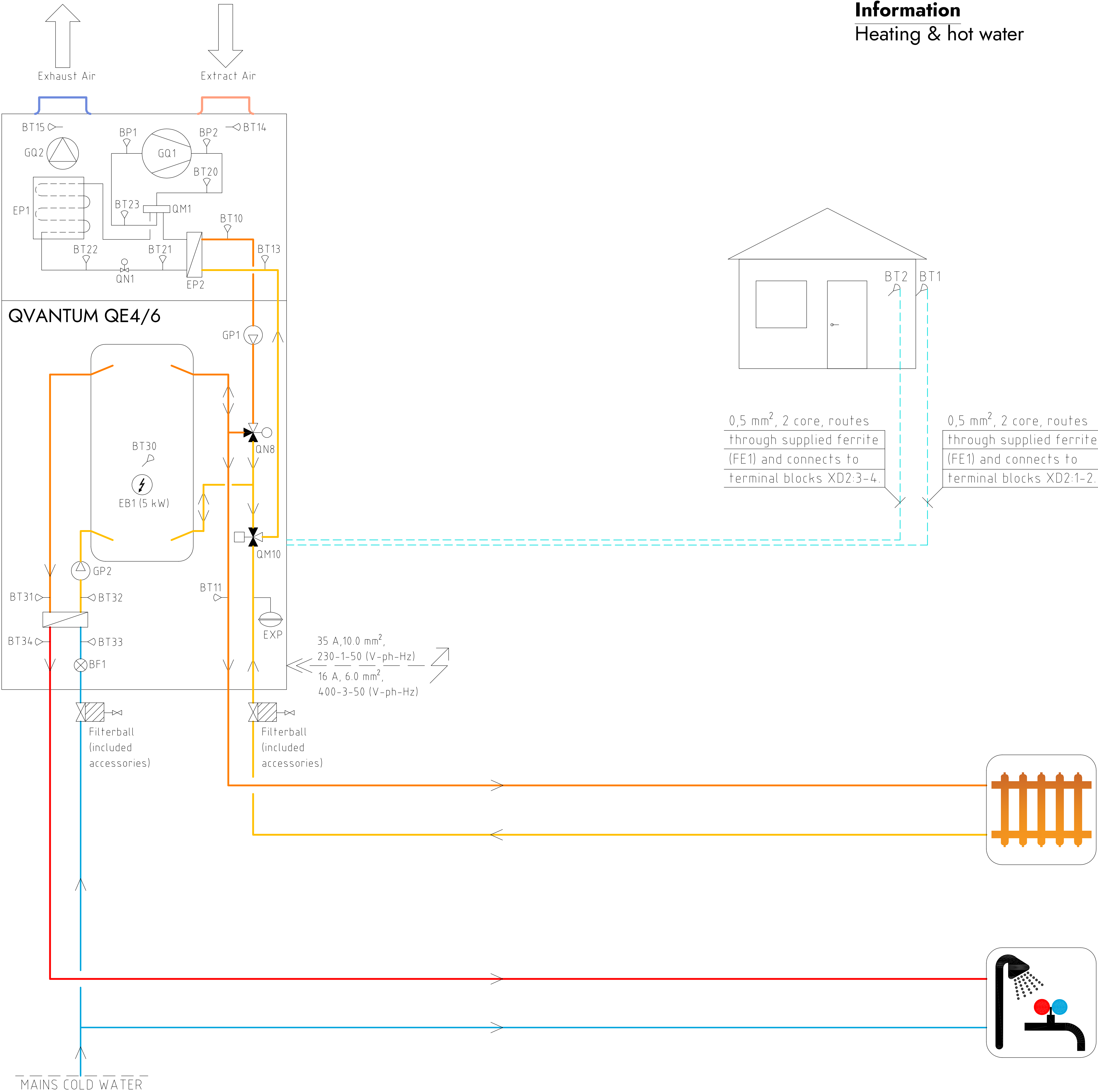
Information


Heating & hot water

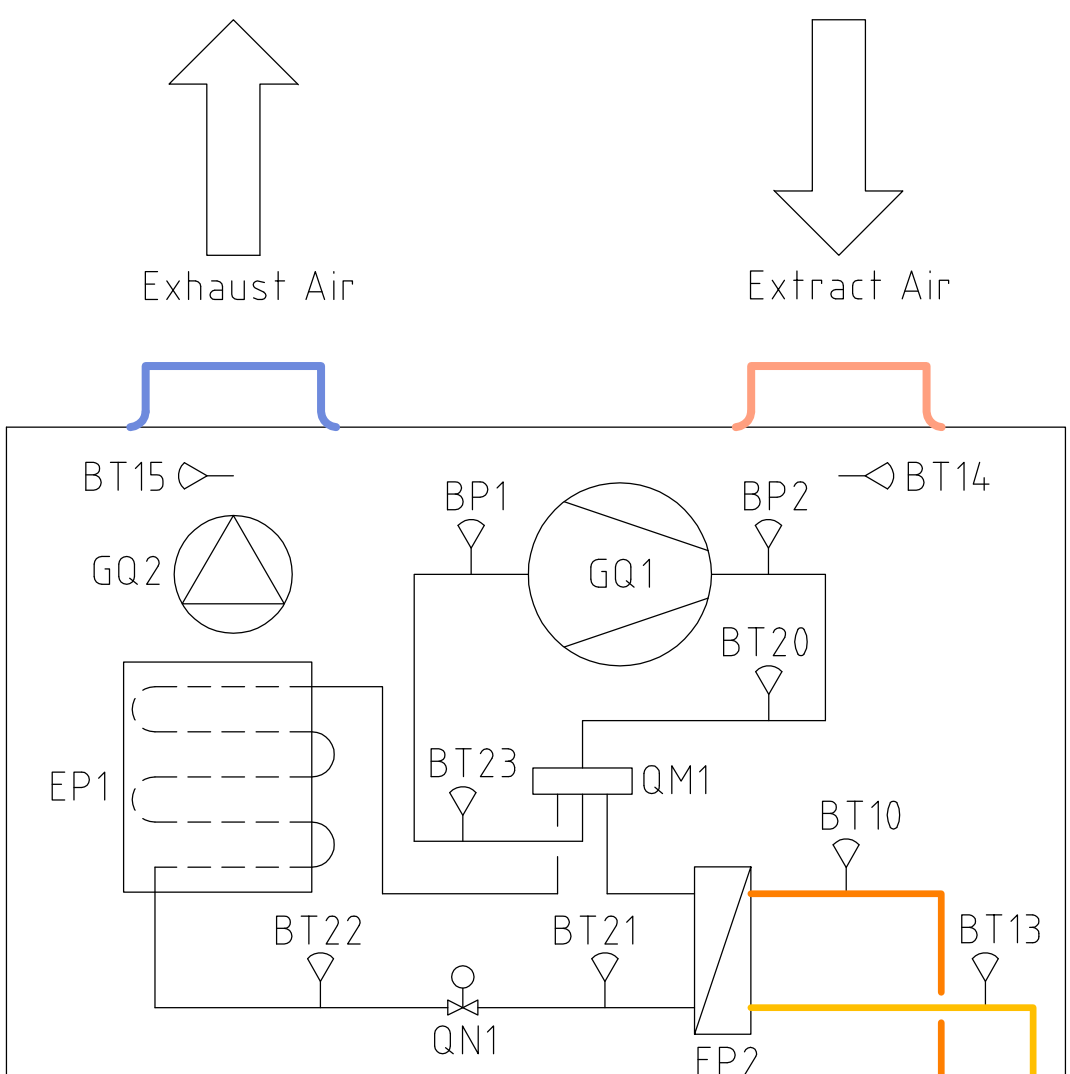
EXPLANATION

- GQ1 Compressor
GQ2 Fan
EP1 Evaporator
EP2 Condenser
QM1 4-way valve
QM10 Diverting valve
QN8 Shunt valve
EB1 Immersion heater
GP1 Circulation pump heating
GP2 Circulation pump hot water

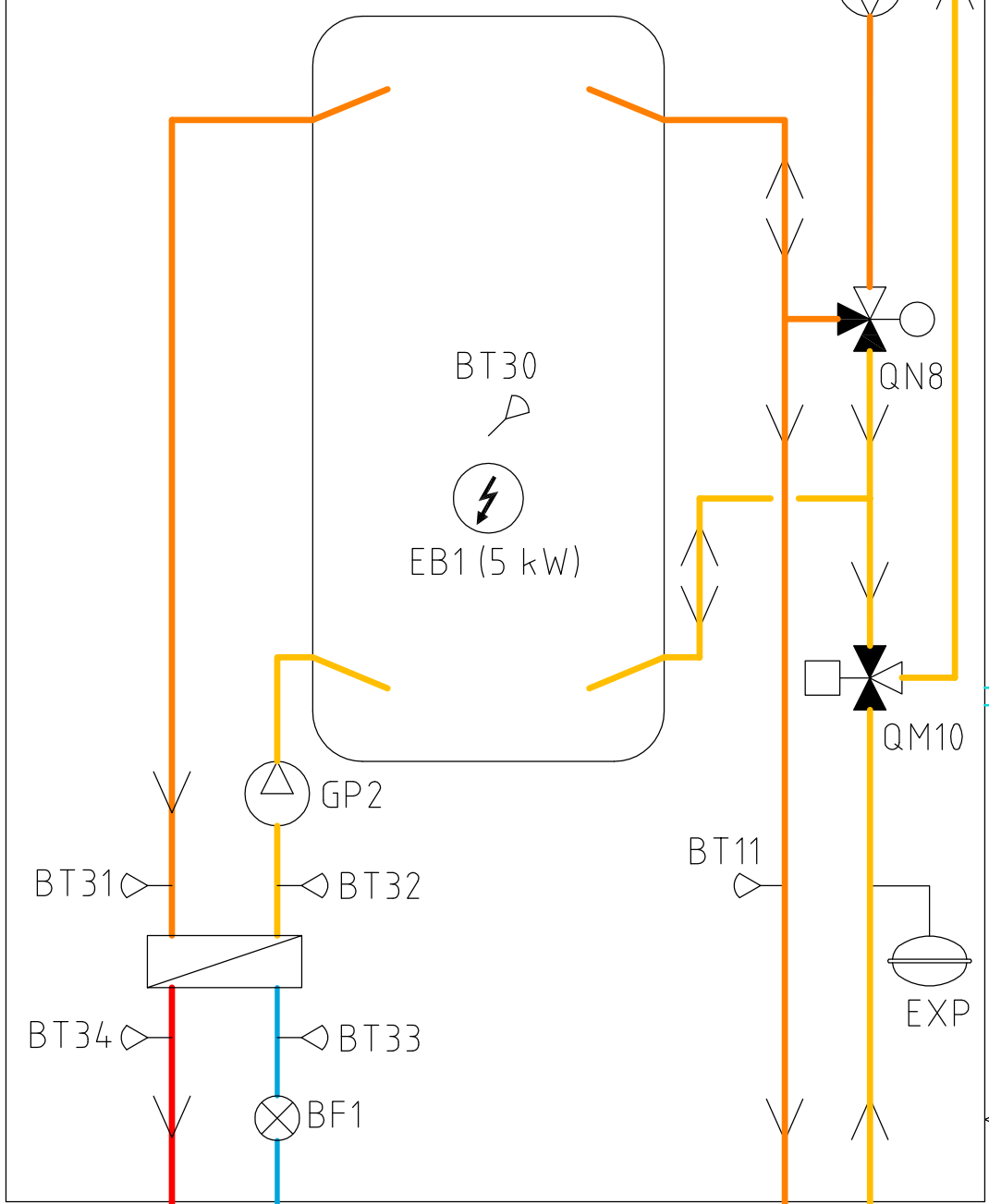
- BT1 Outdoor sensor
BT2 Room sensor
BT10 Condenser outlet
BT11 Heating flow temperature
BT13 Condenser inlet
BT14 Extract air inlet
BT15 Exhaust air outlet
BT20 Discharge temperature
BT21 Liquid line temperature
BT22 Evaporating temperature
BT23 Suction gas temperature
BT30 Tank temperature
BT31 Plate heat exchanger inlet
BT32 Plate heat exchanger outlet
BT33 Cold water inlet
BT34 Hot water outlet
BP1 Suction gas pressure
BP2 Discharge pressure
BF1 Flow sensor



REV	REVISION TYPE	DATE	SIGN
PHASE	-		
QUANTUM INDUSTRIES QE series- docking principle QE4 & QE6			
 QUANTUM HEAT PUMPS FOR SUSTAINABLE CITIES			
A	XXX	phone XXX-XXXX	fax XXX-XXXX
K	XXX	phone XXX-XXXX	fax XXX-XXXX
E	XXX	phone XXX-XXXX	fax XXX-XXXX
V	XXX	phone XXX-XXXX	fax XXX-XXXX
SPR	XXX	phone XXX-XXXX	fax XXX-XXXX
BR	XXX	phone XXX-XXXX	fax XXX-XXXX
M	XXX	phone XXX-XXXX	fax XXX-XXXX
PW	PIPEWORK	phone XXX-XXXX	fax XXX-XXXX
PROJECT NUMBER	DRAWN BY	MANAGED BY	
-	J.E.		
DATE	APPROVED BY		
-			
Quantum Industries QE series - docking principle QE4 & QE6			
SCALE	DRAWING NUMBER	REV	
-	QE46-56-8-001		

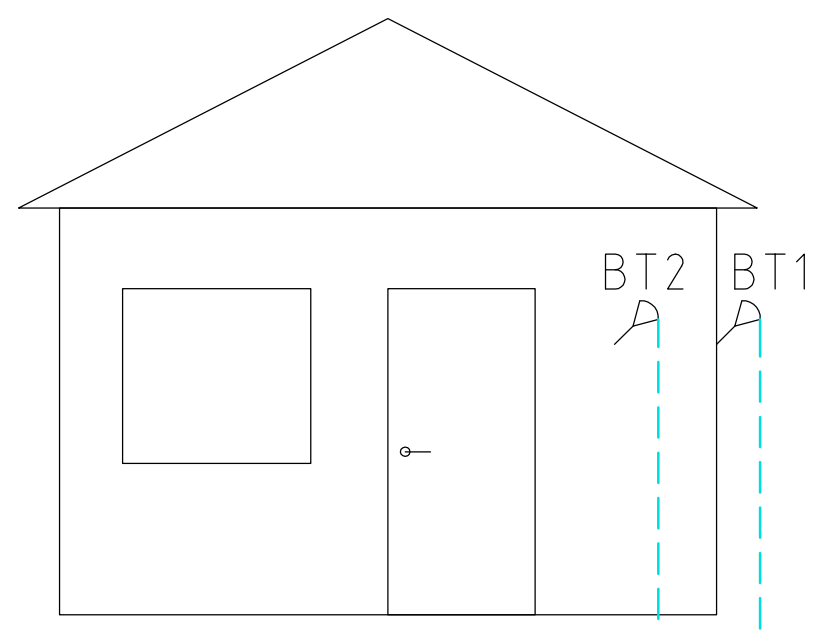


QVANTUM QE4/6



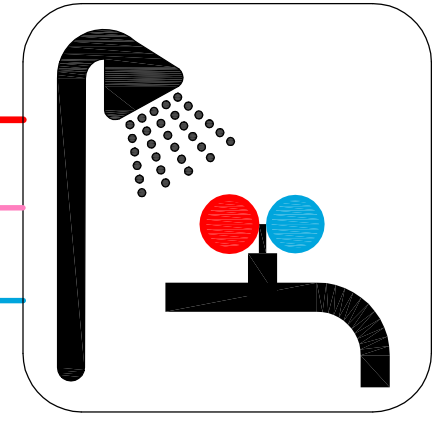
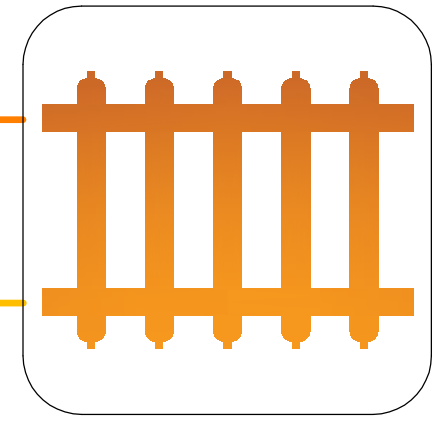
35 A, 10.0 mm²,
230-1-50 (V-ph-Hz)
16 A, 6.0 mm²,
400-3-50 (V-ph-Hz)

Filterball
(included accessories)



0,5 mm², 2 core, routes
through supplied ferrite
(FE1) and connects to
terminal blocks XD2:3-4.

0,5 mm², 2 core, routes
through supplied ferrite
(FE1) and connects to
terminal blocks XD2:1-2.




MAINS COLD WATER

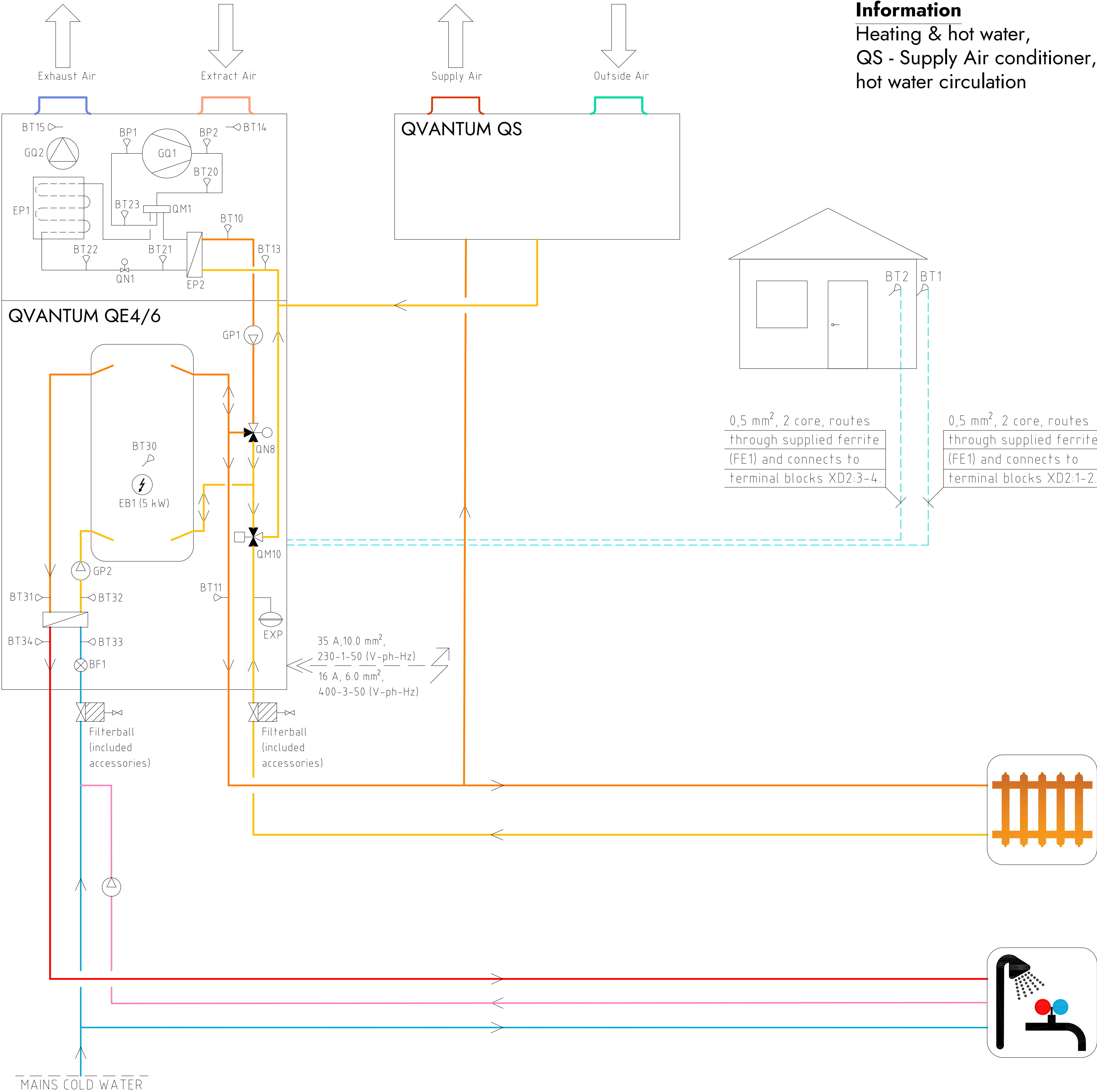
Information
Heating & hot water,
hot water circulation

EXPLANATION

- GQ1 Compressor
- GQ2 Fan
- EP1 Evaporator
- EP2 Condenser
- QM1 4-way valve
- QM10 Diverting valve
- QN8 Shunt valve
- EB1 Immersion heater
- GP1 Circulation pump heating
- GP2 Circulation pump hot water

- BT1 Outdoor sensor
- BT2 Room sensor
- BT10 Condenser outlet
- BT11 Heating flow temperature
- BT13 Condenser inlet
- BT14 Extract air inlet
- BT15 Exhaust air outlet
- BT20 Discharge temperature
- BT21 Liquid line temperature
- BT22 Evaporating temperature
- BT23 Suction gas temperature
- BT30 Tank temperature
- BT31 Plate heat exchanger inlet
- BT32 Plate heat exchanger outlet
- BT33 Cold water inlet
- BT34 Hot water outlet
- BP1 Suction gas pressure
- BP2 Discharge pressure
- BF1 Flow sensor

REV	REVISION TYPE	DATE	SIGN
PHASE	-		
QVANTUM INDUSTRIES QE series- docking principle QE4 & QE6			
 QVANTUM HEAT PUMPS FOR SUSTAINABLE CITIES			
A	XXX	phone XXX-XXXX	fax XXX-XXXX
K	XXX	phone XXX-XXXX	fax XXX-XXXX
E	XXX	phone XXX-XXXX	fax XXX-XXXX
V	XXX	phone XXX-XXXX	fax XXX-XXXX
SPR	XXX	phone XXX-XXXX	fax XXX-XXXX
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PW	PIPEWORK	phone XXX-XXXX	fax XXX-XXXX
PROJECT NUMBER	DRAWN BY J.E.	MANAGED BY	
DATE	APPROVED BY		
Quantum Industries QE series - docking principle QE4 & QE6			
SCALE	DRAWING NUMBER	REV	
-	QE46-56-8-002		



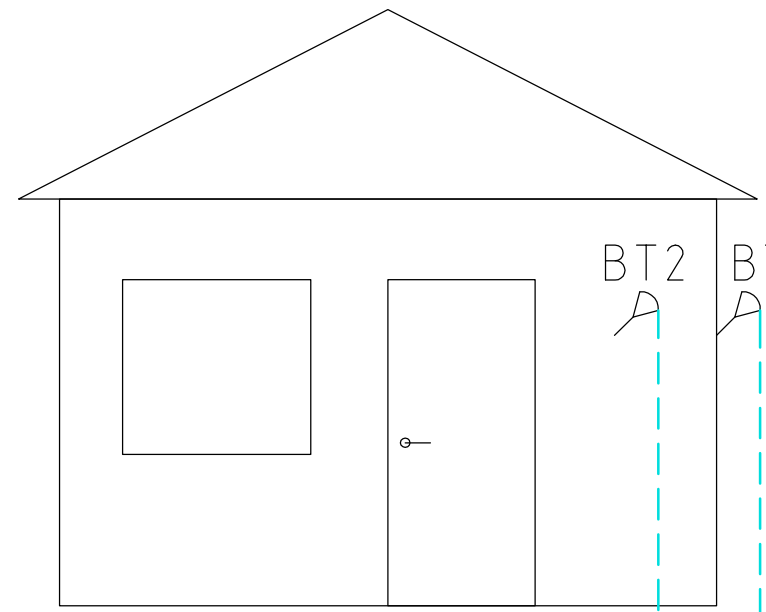
Information

Heating & hot water,
QS - Supply Air conditioner,
hot water circulation

EXPLANATION


- GQ1 Compressor
- GQ2 Fan
- EP1 Evaporator
- EP2 Condenser
- QM1 4-way valve
- QM10 Diverting valve
- QN8 Shunt valve
- EB1 Immersion heater
- GP1 Circulation pump heating
- GP2 Circulation pump hot water

- BT1 Outdoor sensor
- BT2 Room sensor
- BT10 Condenser outlet
- BT11 Heating flow temperature
- BT13 Condenser inlet
- BT14 Extract air inlet
- BT15 Exhaust air outlet
- BT20 Discharge temperature
- BT21 Liquid line temperature
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- BT23 Suction gas temperature
- BT30 Tank temperature
- BT31 Plate heat exchanger inlet
- BT32 Plate heat exchanger outlet
- BT33 Cold water inlet
- BT34 Hot water outlet
- BP1 Suction gas pressure
- BP2 Discharge pressure
- BF1 Flow sensor



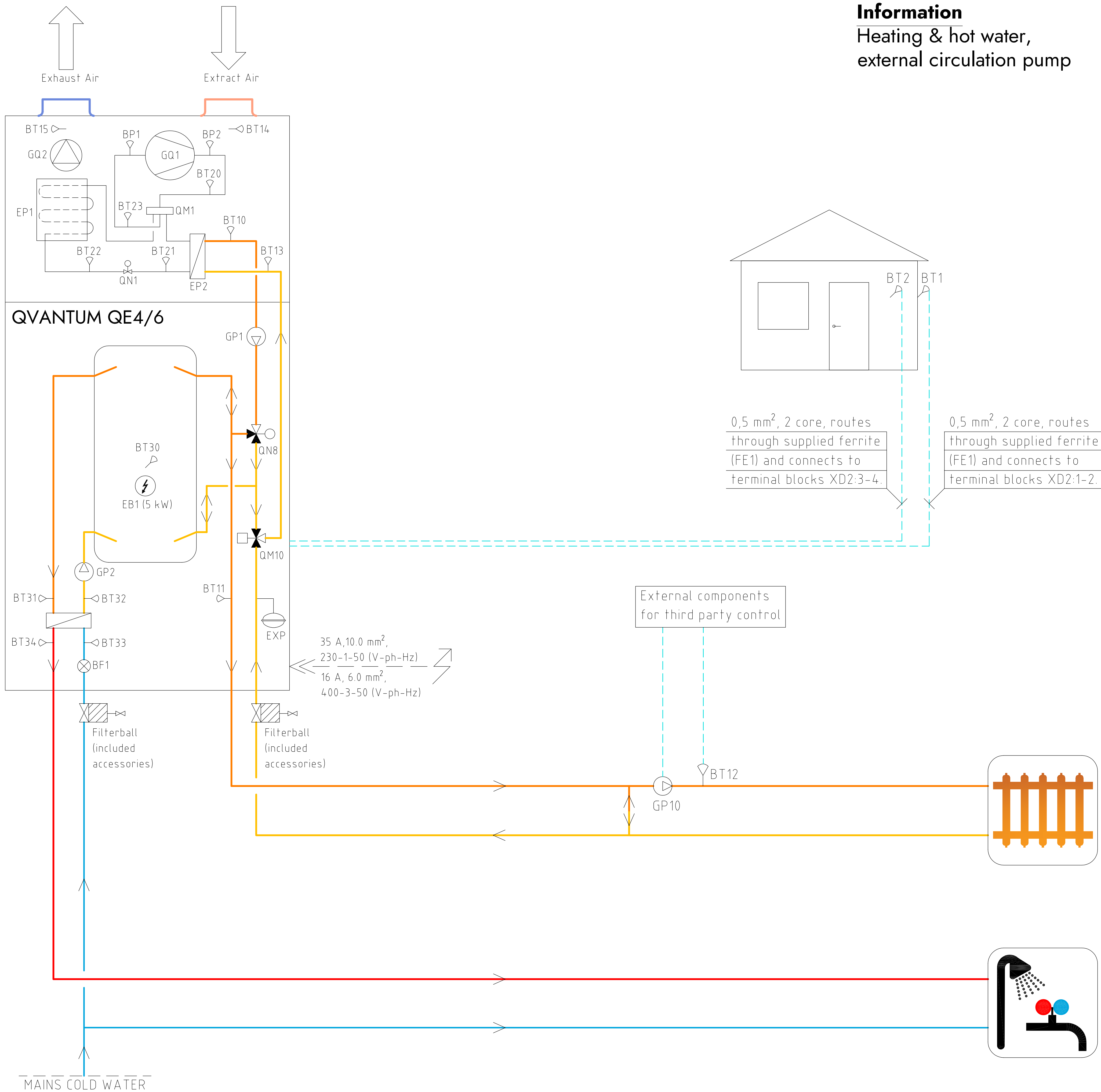
0,5 mm², 2 core, routes
through supplied ferrite
(FE1) and connects to
terminal blocks XD2:3-4.

0,5 mm², 2 core, routes
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REV	REVISION TYPE	DATE	SIGN
PHASE	-		
QUANTUM INDUSTRIES QE series- docking principle QE4 & QE6			
 QUANTUM HEAT PUMPS FOR SUSTAINABLE CITIES			
A	XXX	phone XXX-XXX	fax XXX-XXX
K	XXX	phone XXX-XXX	fax XXX-XXX
E	XXX	phone XXX-XXX	fax XXX-XXX
V	XXX	phone XXX-XXX	fax XXX-XXX
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M	XXX	phone XXX-XXX	fax XXX-XXX
PW	PIPEWORK	phone XXX-XXX	fax XXX-XXX
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Quantum Industries QE series - docking principle QE4 & QE6			
SCALE	DRAWING NUMBER	REV	
-	QE46-56-8-003		

XREF

Subject to possible printing errors.
LAGER: SB11



Information
Heating & hot water,
external circulation pump

EXPLANATION

- GQ1 Compressor
- GQ2 Fan
- EP1 Evaporator
- EP2 Condenser
- QM1 4-way valve
- QM10 Diverting valve
- QN8 Shunt valve
- EB1 Immersion heater
- GP1 Circulation pump heating
- GP2 Circulation pump hot water
- BT1 Outdoor sensor
- BT2 Room sensor
- BT10 Condenser outlet
- BT11 Heating flow temperature
- BT13 Condenser inlet
- BT14 Extract air inlet
- BT15 Exhaust air outlet
- BT20 Discharge temperature
- BT21 Liquid line temperature
- BT22 Evaporating temperature
- BT23 Suction gas temperature
- BT30 Tank temperature
- BT31 Plate heat exchanger inlet
- BT32 Plate heat exchanger outlet
- BT33 Cold water inlet
- BT34 Hot water outlet
- BP1 Suction gas pressure
- BP2 Discharge pressure
- BF1 Flow sensor
- BT12 External flow temperature
- GP10 External circulation pump, heating

REV	REVISION TYPE	DATE	SIGN
PHASE	-		

QUANTUM INDUSTRIES
QE series- docking principle
QE4 & QE6

Q V A N T U M
HEAT PUMPS FOR SUSTAINABLE CITIES

	A	XXX	phone XXX-XXXX	fax XXX-XXXX
K	XXX	phone XXX-XXXX	fax XXX-XXXX	
E	XXX	phone XXX-XXXX	fax XXX-XXXX	
V	XXX	phone XXX-XXXX	fax XXX-XXXX	
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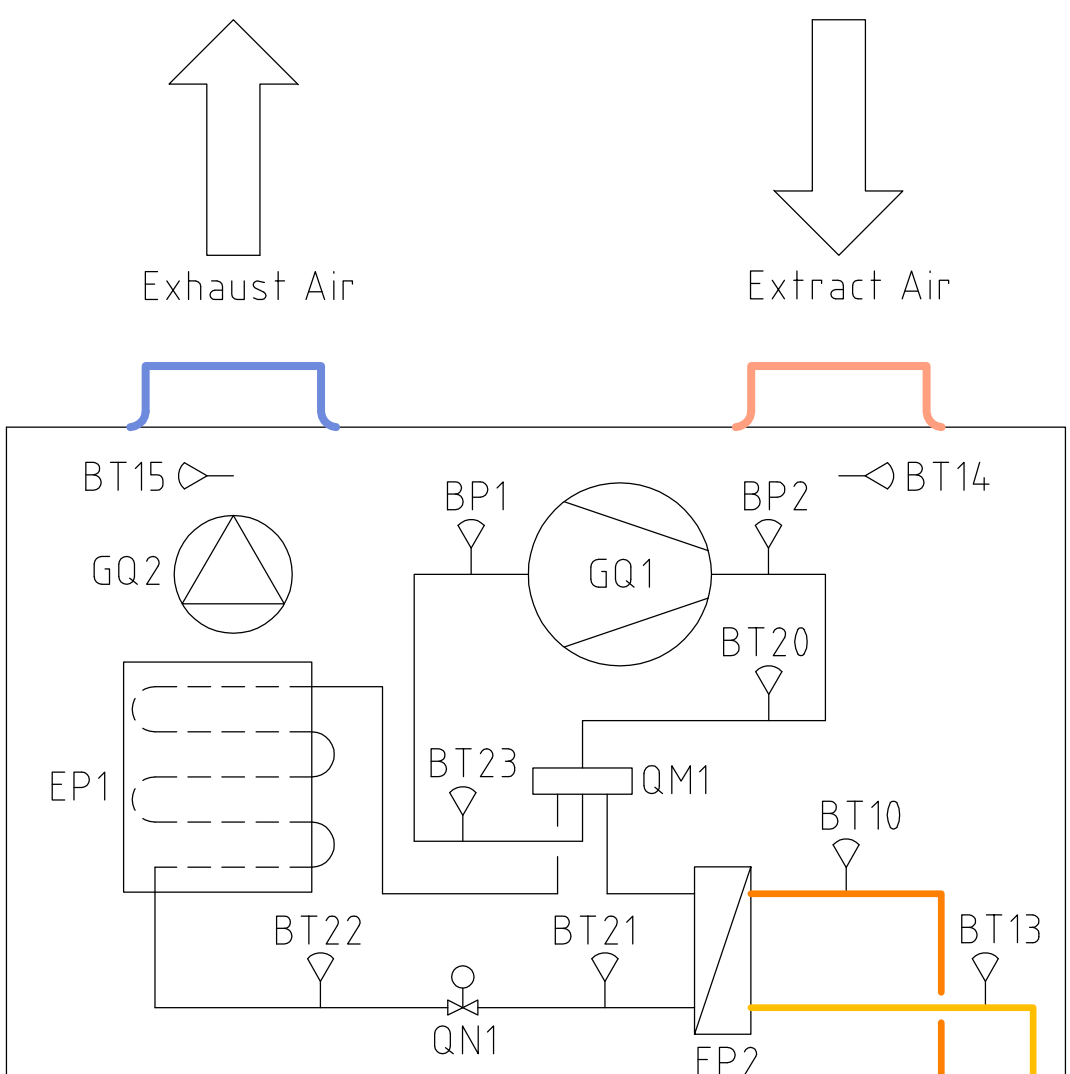
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-	J.E.	

DATE	APPROVED BY
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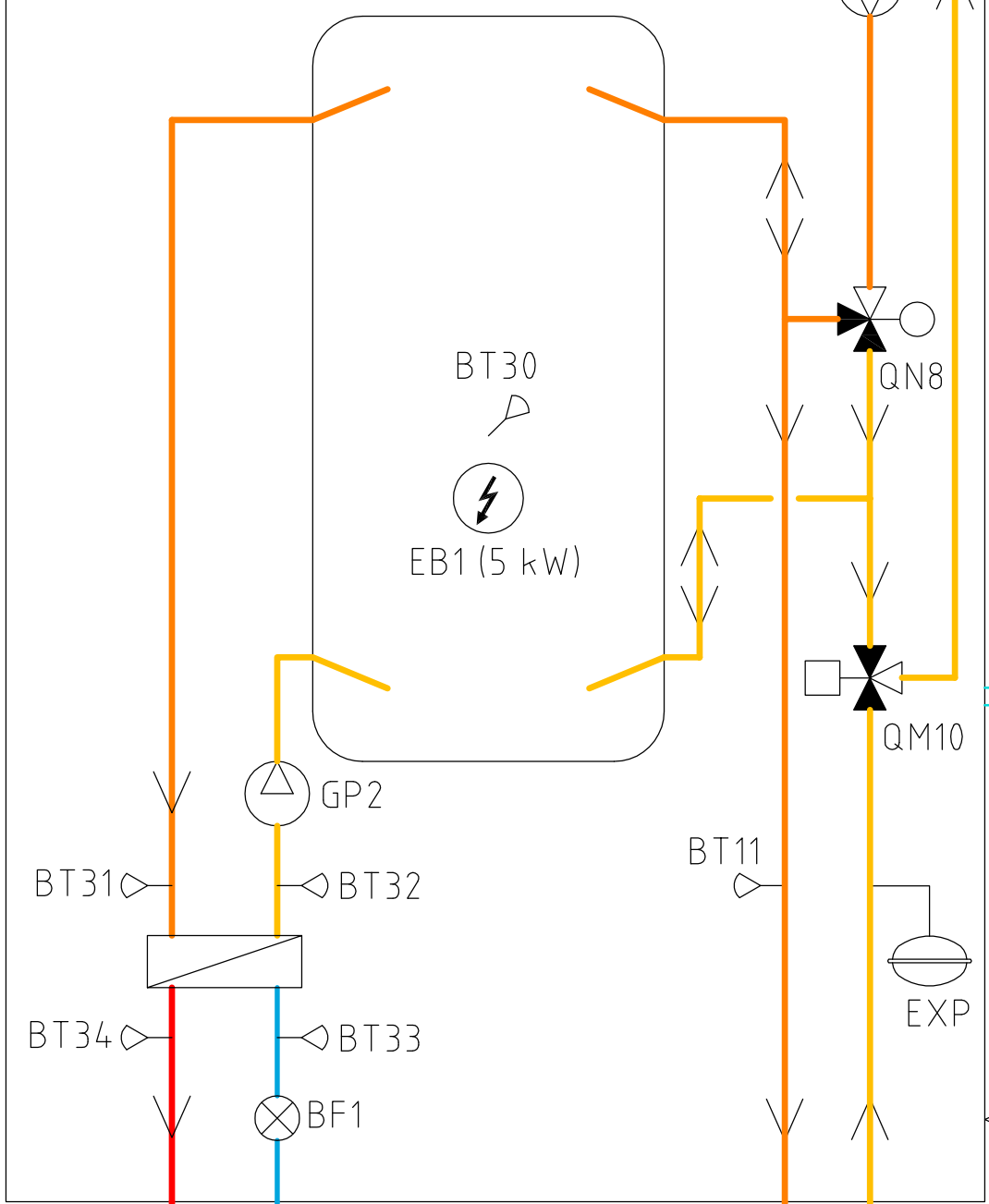
Quantum Industries
QE series - docking principle
QE4 & QE6

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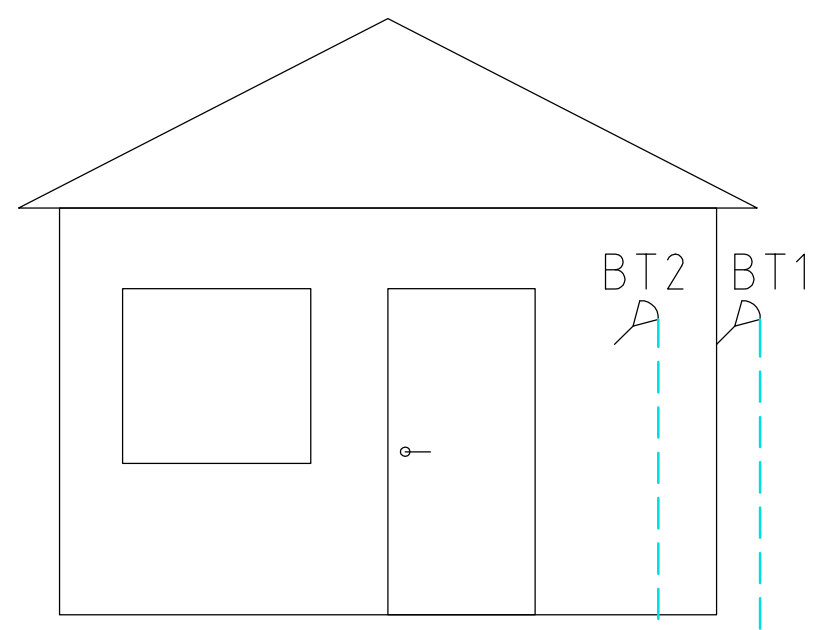
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QVANTUM QE4/6



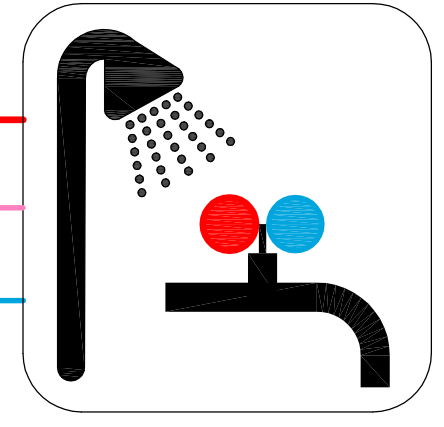
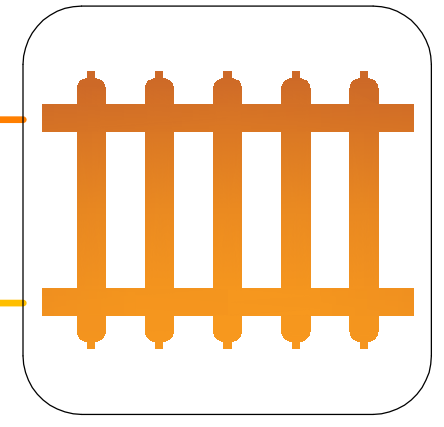
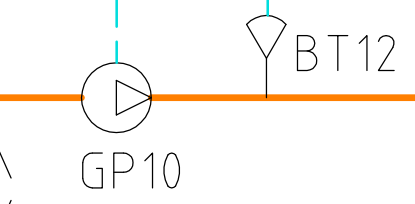
35 A, 10.0 mm²,
230-1-50 (V-ph-Hz)
16 A, 6.0 mm²,
400-3-50 (V-ph-Hz)



0,5 mm², 2 core, routes
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(FE1) and connects to
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0,5 mm², 2 core, routes
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terminal blocks XD2:1-2.

External components
for third party control



Information

Heating & hot water,
external circulation pump,
hot water circulation

EXPLANATION

- GQ1 Compressor
- GQ2 Fan
- EP1 Evaporator
- EP2 Condenser
- QM1 4-way valve
- QM10 Diverting valve
- QN8 Shunt valve
- EB1 Immersion heater
- GP1 Circulation pump heating
- GP2 Circulation pump hot water

- BT1 Outdoor sensor
- BT2 Room sensor
- BT10 Condenser outlet
- BT11 Heating flow temperature
- BT13 Condenser inlet
- BT14 Extract air inlet
- BT15 Exhaust air outlet
- BT20 Discharge temperature
- BT21 Liquid line temperature
- BT22 Evaporating temperature
- BT23 Suction gas temperature
- BT30 Tank temperature
- BT31 Plate heat exchanger inlet
- BT32 Plate heat exchanger outlet
- BT33 Cold water inlet
- BT34 Hot water outlet
- BP1 Suction gas pressure
- BP2 Discharge pressure
- BF1 Flow sensor

- BT12 External flow temperature
- GP10 External circulation pump, heating

REV	REVISION TYPE	DATE	SIGN
PHASE	-		

QVANTUM INDUSTRIES
QE series- docking principle
QE4 & QE6

Q V A N T U M
HEAT PUMPS FOR SUSTAINABLE CITIES

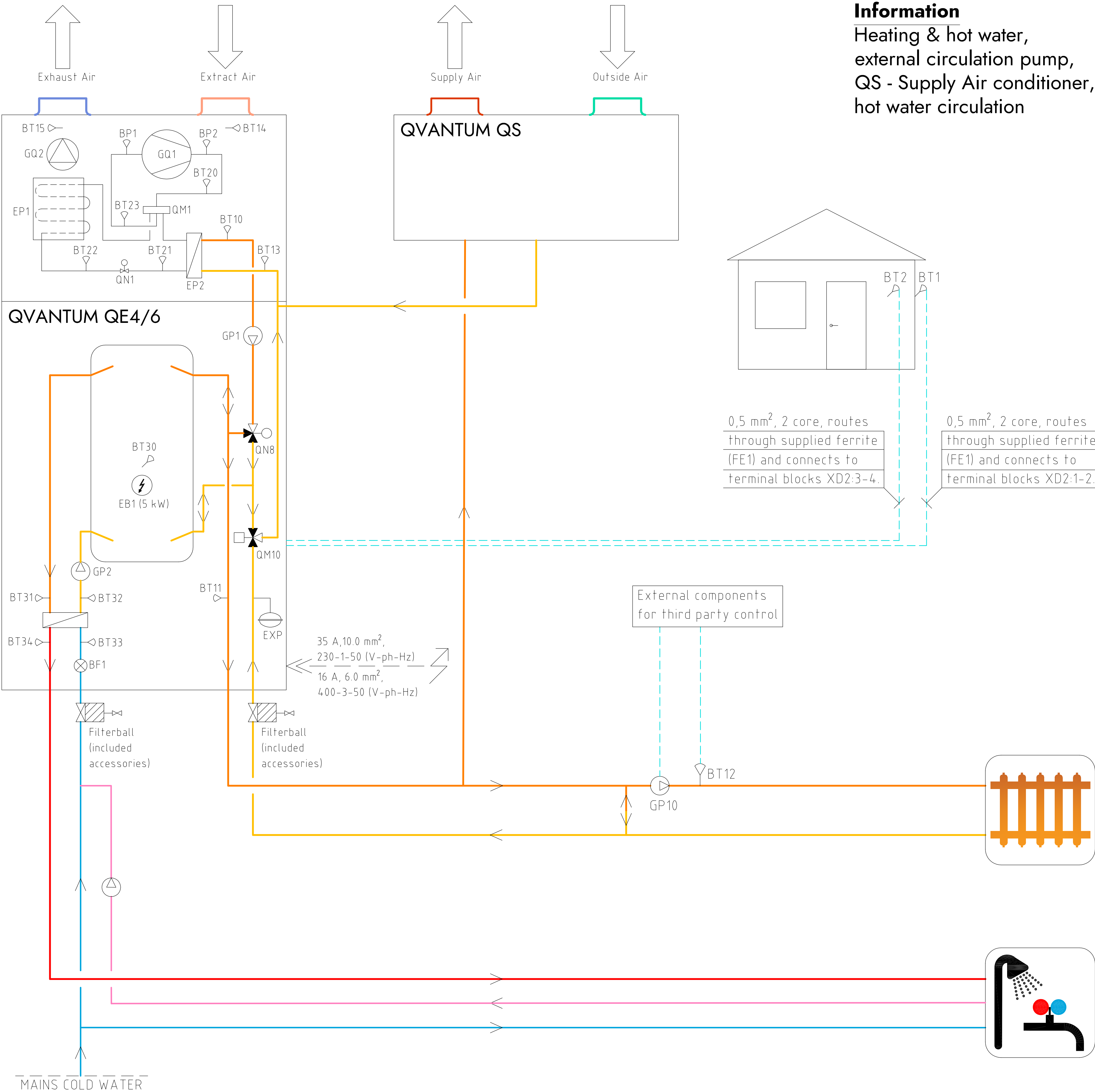
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K	XXX	phone XXX-XXXX	fax XXX-XXXX	
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V	XXX	phone XXX-XXXX	fax XXX-XXXX	
SPR	XXX	phone XXX-XXXX	fax XXX-XXXX	
BR	XXX	phone XXX-XXXX	fax XXX-XXXX	
M	XXX	phone XXX-XXXX	fax XXX-XXXX	
PW	PIPEWORK	phone XXX-XXXX	fax XXX-XXXX	

PROJECT NUMBER	DRAWN BY	MANAGED BY
-	J.E.	

DATE	APPROVED BY
-	


Quantum Industries
QE series - docking principle
QE4 & QE6

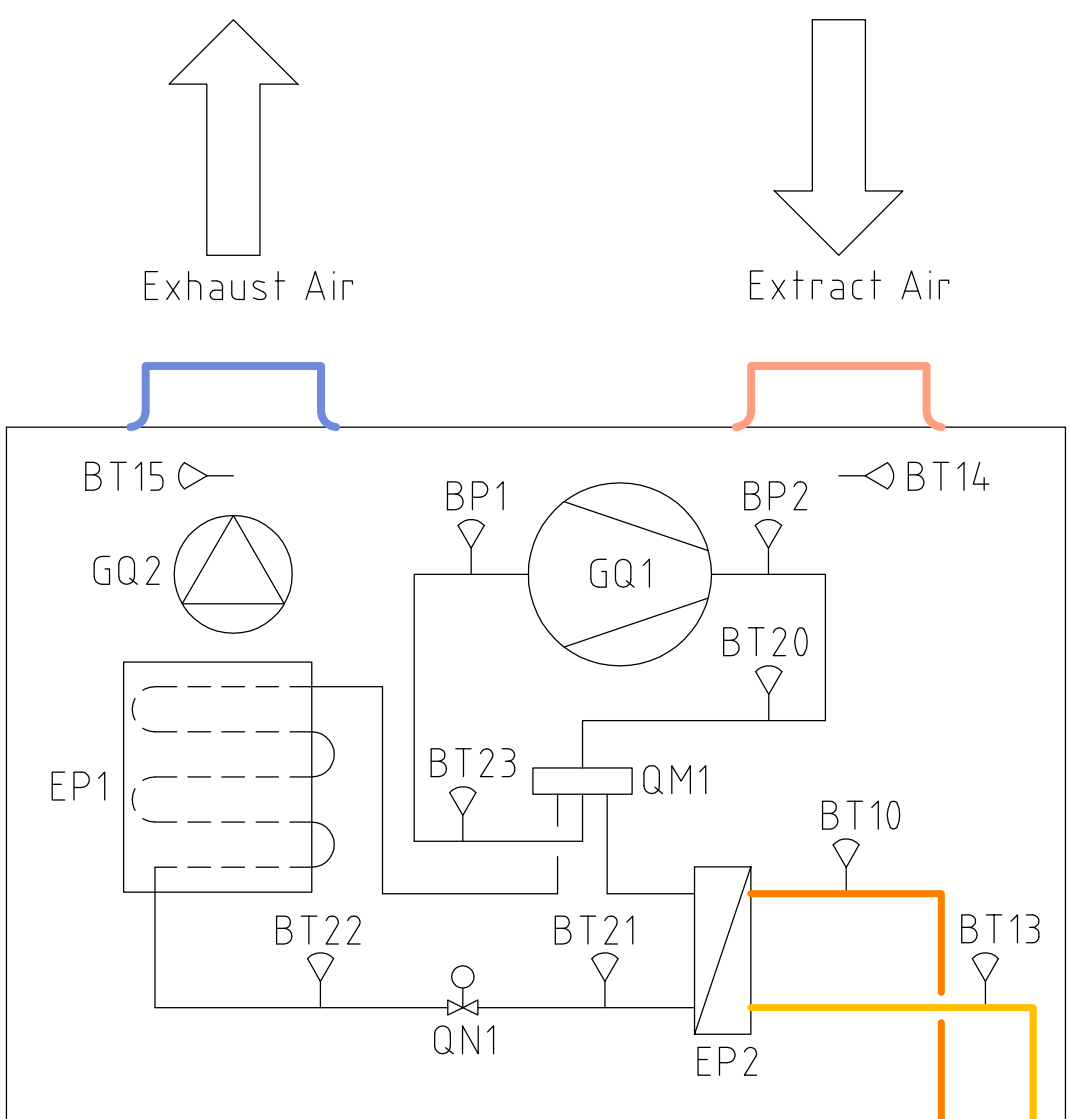
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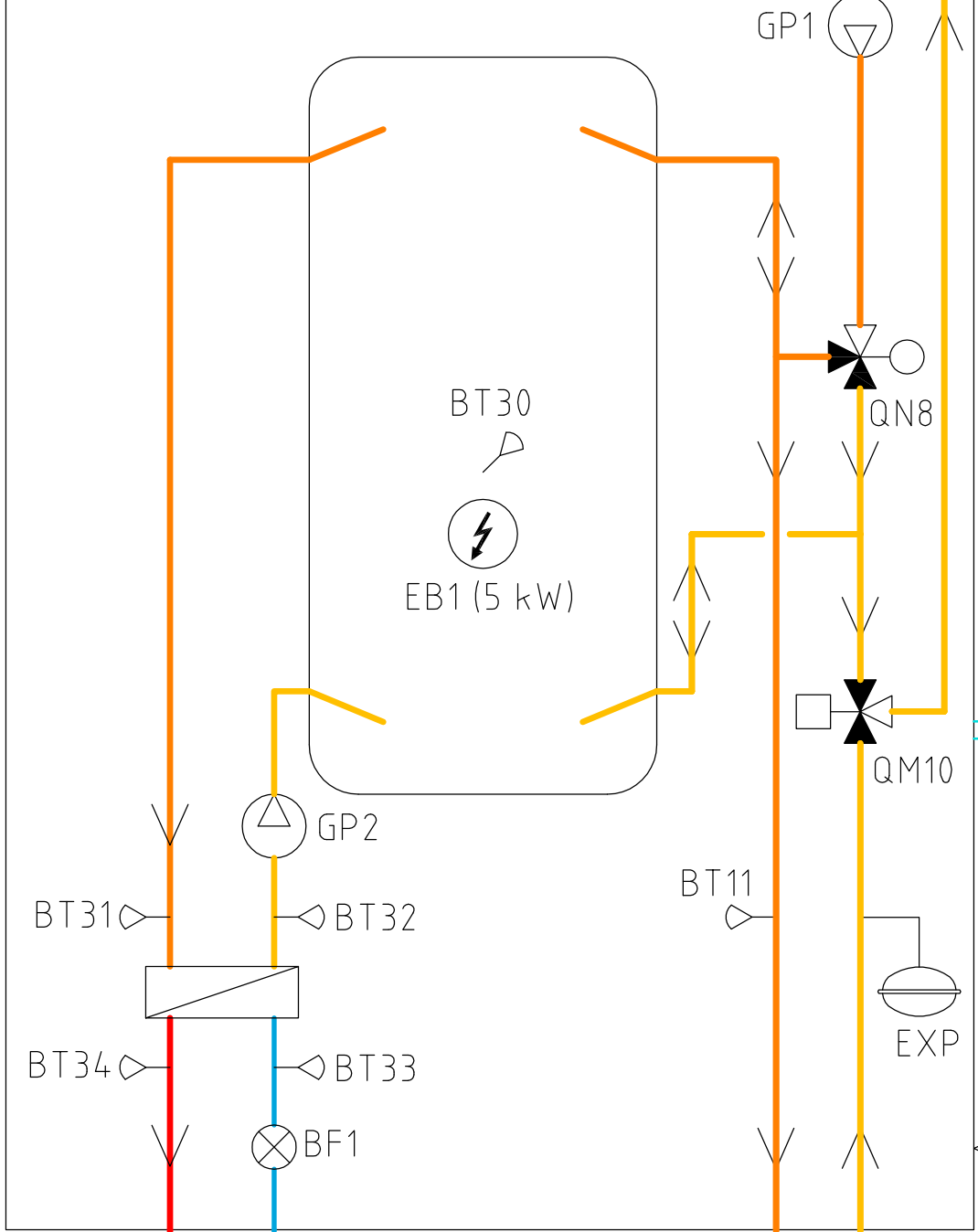
Information
Heating & hot water,
external circulation pump,
QS - Supply Air conditioner,
hot water circulation

EXPLANATION	
GQ1	Compressor
GQ2	Fan
EP1	Evaporator
EP2	Condenser
QM1	4-way valve
QM10	Diverting valve
QN8	Shunt valve
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
BT1	Outdoor sensor
BT2	Room sensor
BT10	Condenser outlet
BT11	Heating flow temperature
BT13	Condenser inlet
BT14	Extract air inlet
BT15	Exhaust air outlet
BT20	Discharge temperature
BT21	Liquid line temperature
BT22	Evaporating temperature
BT23	Suction gas temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT32	Plate heat exchanger outlet
BT33	Cold water inlet
BT34	Hot water outlet
BP1	Suction gas pressure
BP2	Discharge pressure
BF1	Flow sensor
BT12	External flow temperature
GP10	External circulation pump, heating

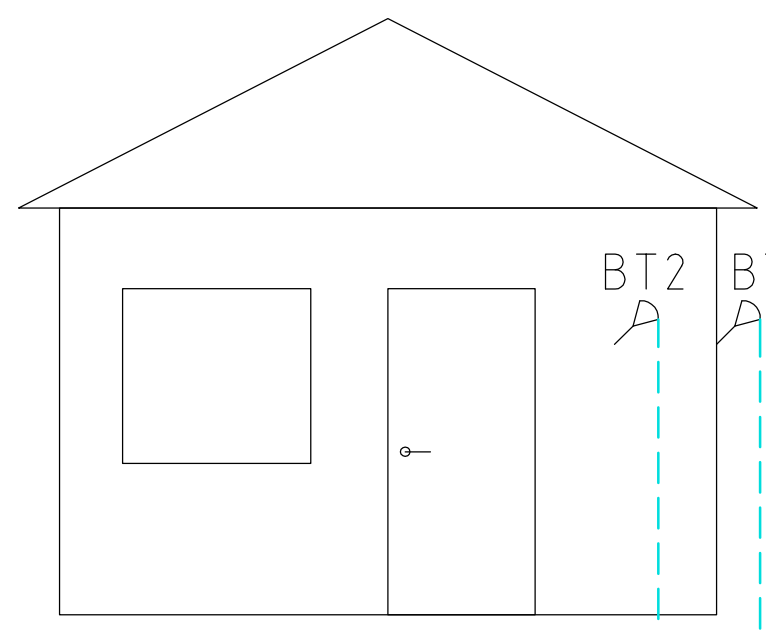
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PHASE			
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QVANTUM INDUSTRIES QE series- docking principle QE4 & QE6			
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K	XXX	phone XXX-XXX	fax XXX-XXX
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M	XXX	phone XXX-XXX	fax XXX-XXX
<input checked="" type="checkbox"/> PW	PIPEWORK	phone XXX-XXX	fax XXX-XXX
PROJECT NUMBER		DRAWN BY	MANAGED BY
DATE		J.E.	
-		APPROVED BY	
-			
Quantum Industries QE series - docking principle QE4 & QE6			
SCALE	DRAWING NUMBER		REV
-	QE46-56-8-006		
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QUANTUM QE4/6



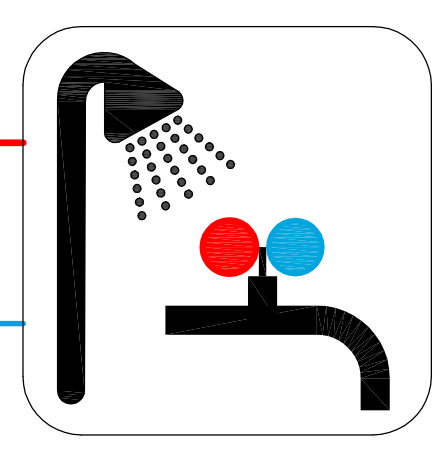
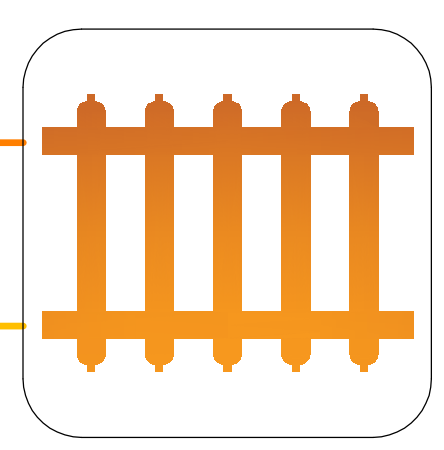
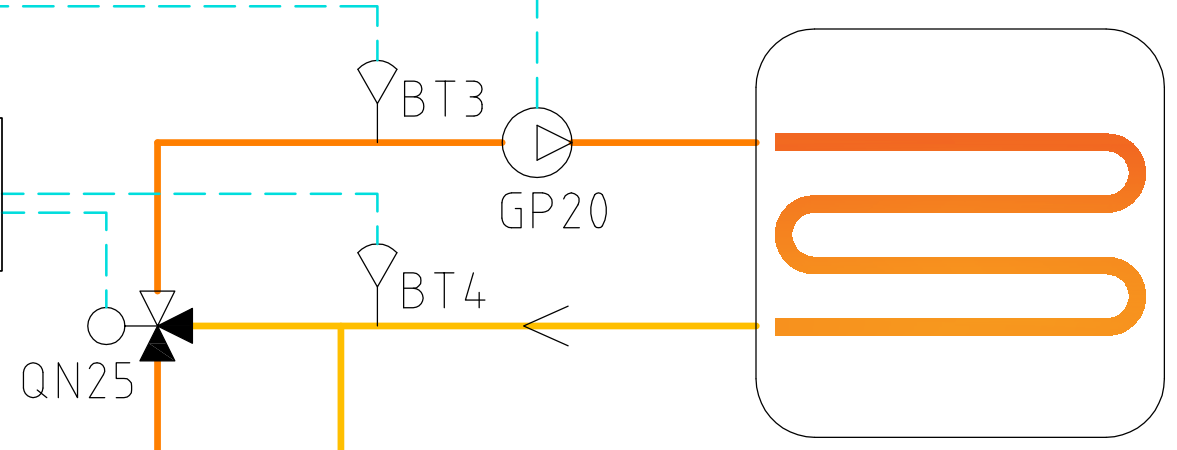
35 A, 10.0 mm²,
230-1-50 (V-ph-Hz)
16 A, 6.0 mm²,
400-3-50 (V-ph-Hz)



0,5 mm², 2 core, routes
through supplied ferrite
(FE1) and connects to
terminal blocks XD2:3-4.

0,5 mm², 2 core, routes
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terminal blocks XD2:1-2.

External components
for third party control



Information

Heating & hot water,
external circulation pump,
second heating system


EXPLANATION

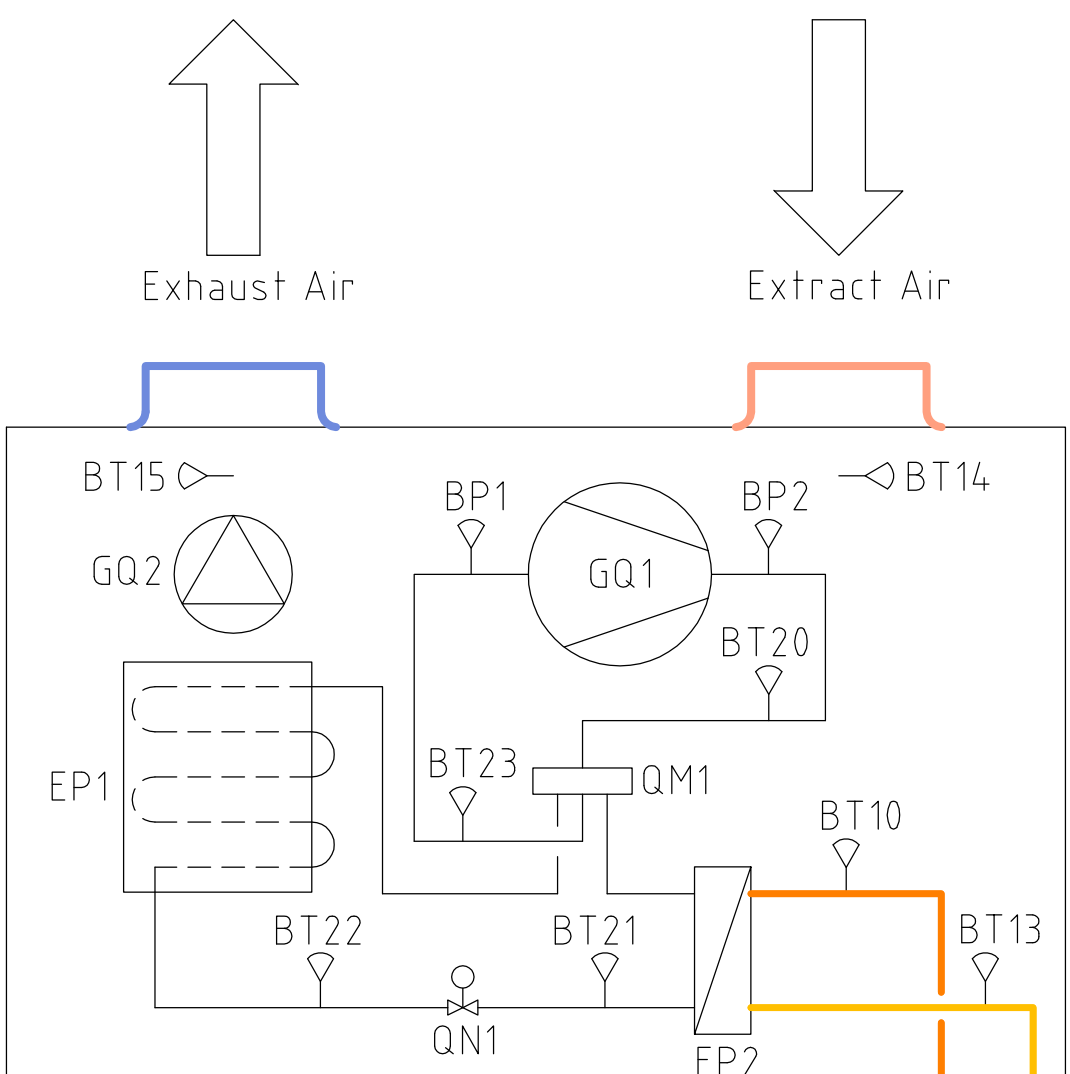
- GQ1 Compressor
- GQ2 Fan
- EP1 Evaporator
- EP2 Condenser
- QM1 4-way valve
- QM10 Diverting valve
- QN8 Shunt valve
- EB1 Immersion heater
- GP1 Circulation pump heating
- GP2 Circulation pump hot water

- BT1 Outdoor sensor
- BT2 Room sensor
- BT10 Condenser outlet
- BT11 Heating flow temperature
- BT13 Condenser inlet
- BT14 Extract air inlet
- BT15 Exhaust air outlet
- BT20 Discharge temperature
- BT21 Liquid line temperature
- BT22 Evaporating temperature
- BT23 Suction gas temperature
- BT30 Tank temperature
- BT31 Plate heat exchanger inlet
- BT32 Plate heat exchanger outlet
- BT33 Cold water inlet
- BT34 Hot water outlet
- BP1 Suction gas pressure
- BP2 Discharge pressure
- BF1 Flow sensor

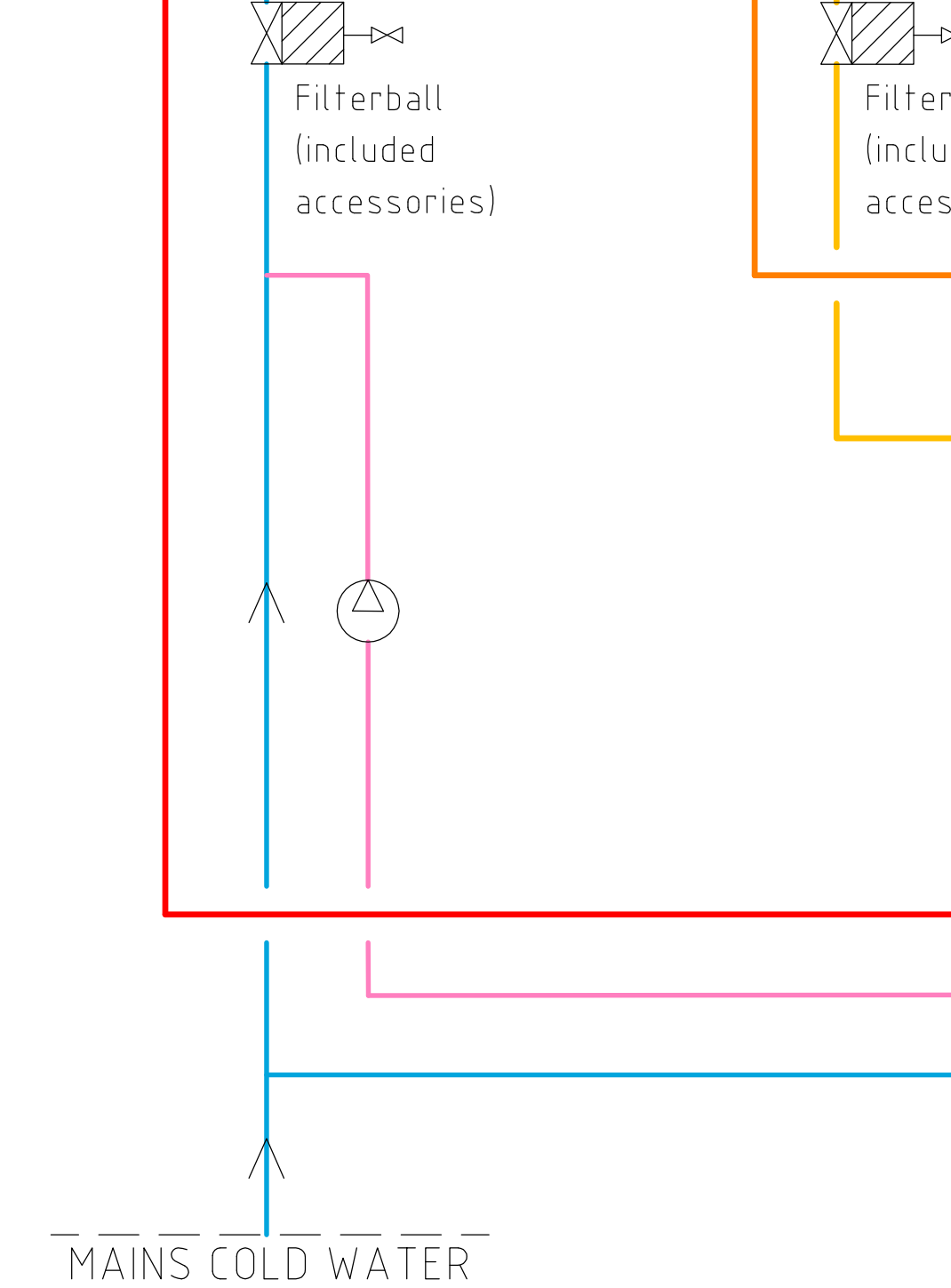
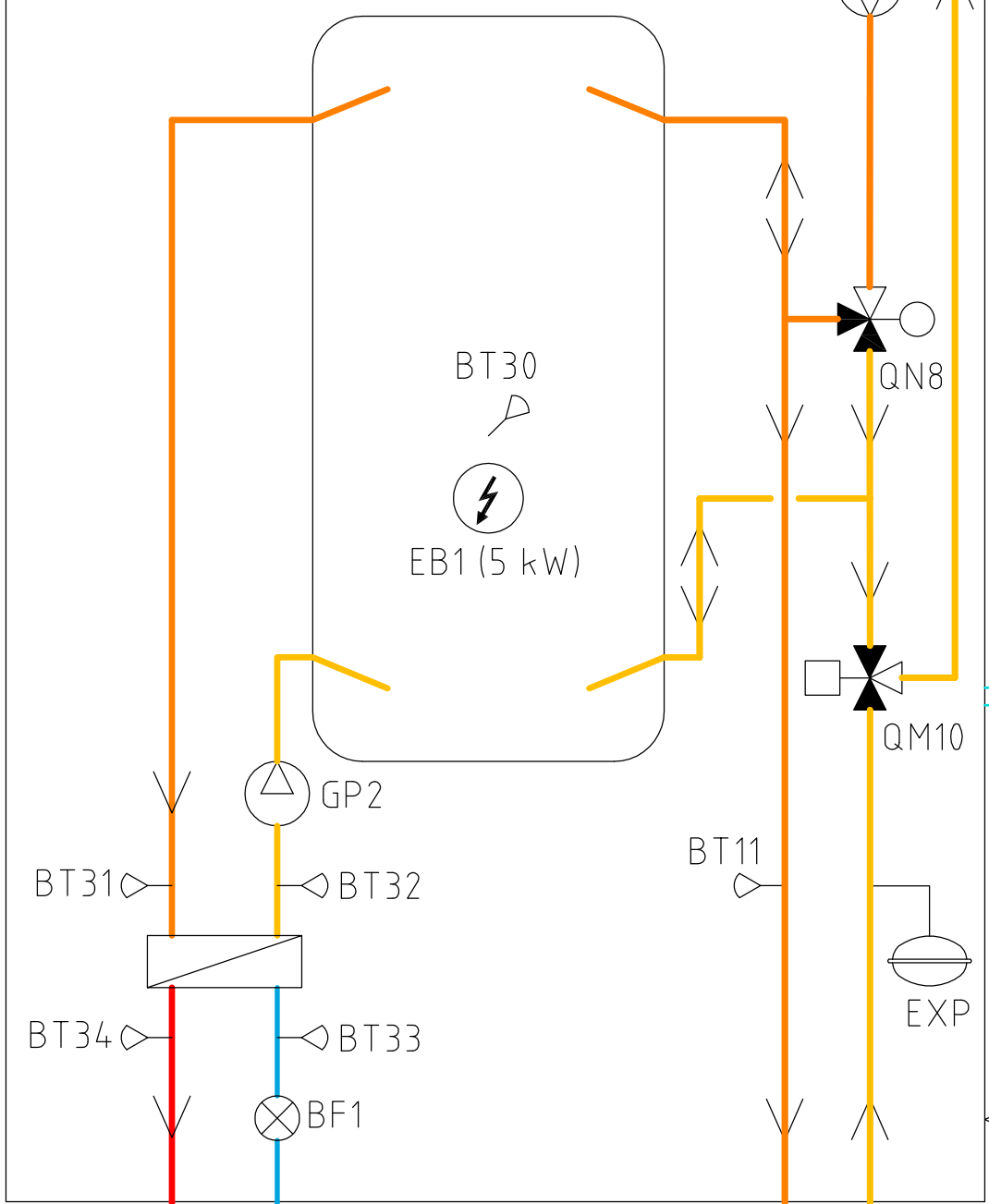
- BT12 External flow temperature
- GP10 External circulation pump, heating

- BT3 Heating flow, sec heating
- BT4 Heating return, sec heating
- GP20 Circulation pump, sec heating
- QN25 Shunt valve, sec heating

REV	REVISION TYPE	DATE	SIGN
PHASE	-		
QUANTUM INDUSTRIES QE series- docking principle QE4 & QE6			
 QUANTUM HEAT PUMPS FOR SUSTAINABLE CITIES			
A	XXX	phone XXX-XXXX	fax XXX-XXXX
K	XXX	phone XXX-XXXX	fax XXX-XXXX
E	XXX	phone XXX-XXXX	fax XXX-XXXX
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PW	PIPEWORK	phone XXX-XXXX	fax XXX-XXXX
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Quantum Industries QE series - docking principle QE4 & QE6			
SCALE	DRAWING NUMBER	REV	
-	QE46-56-8-007		

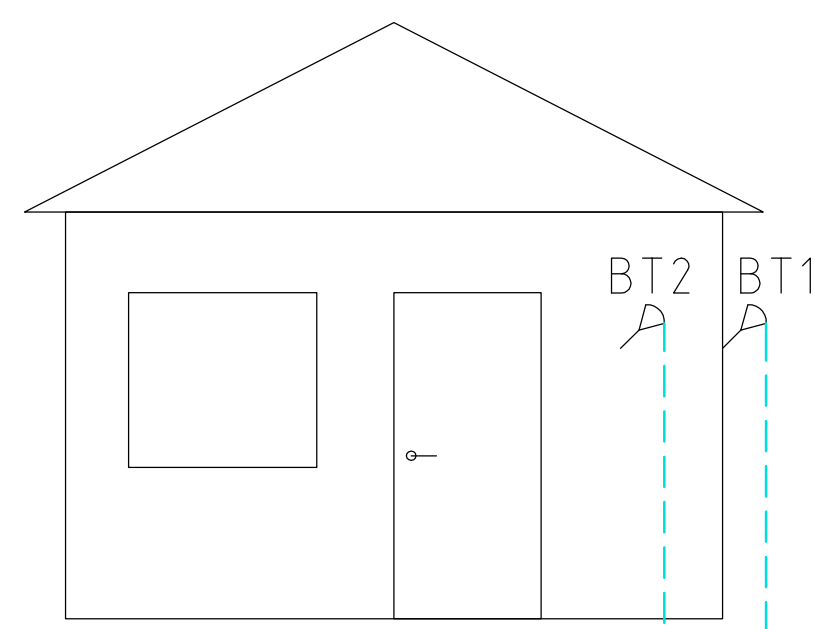


QUANTUM QE4/6



Information

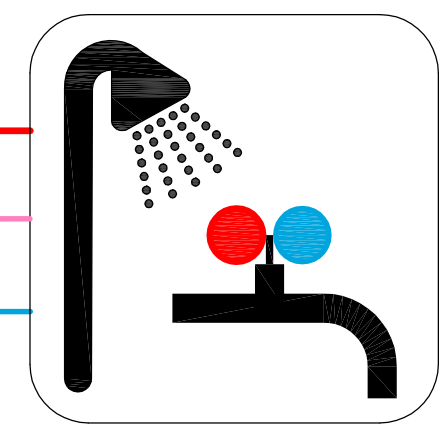
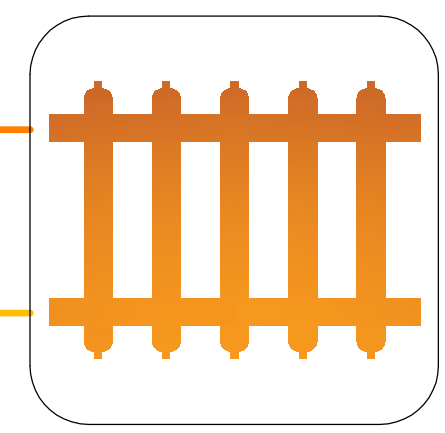
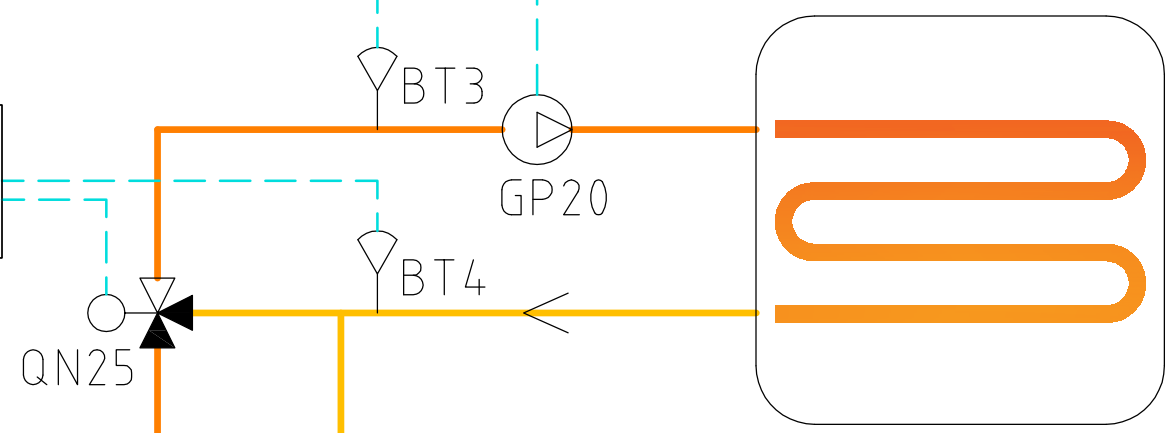
Heating & hot water,
external circulation pump,
second heating system,
hot water circulation



0,5 mm², 2 core, routes
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terminal blocks XD2:3-4.

0,5 mm², 2 core, routes
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(FE1) and connects to
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External components
for third party control




EXPLANATION

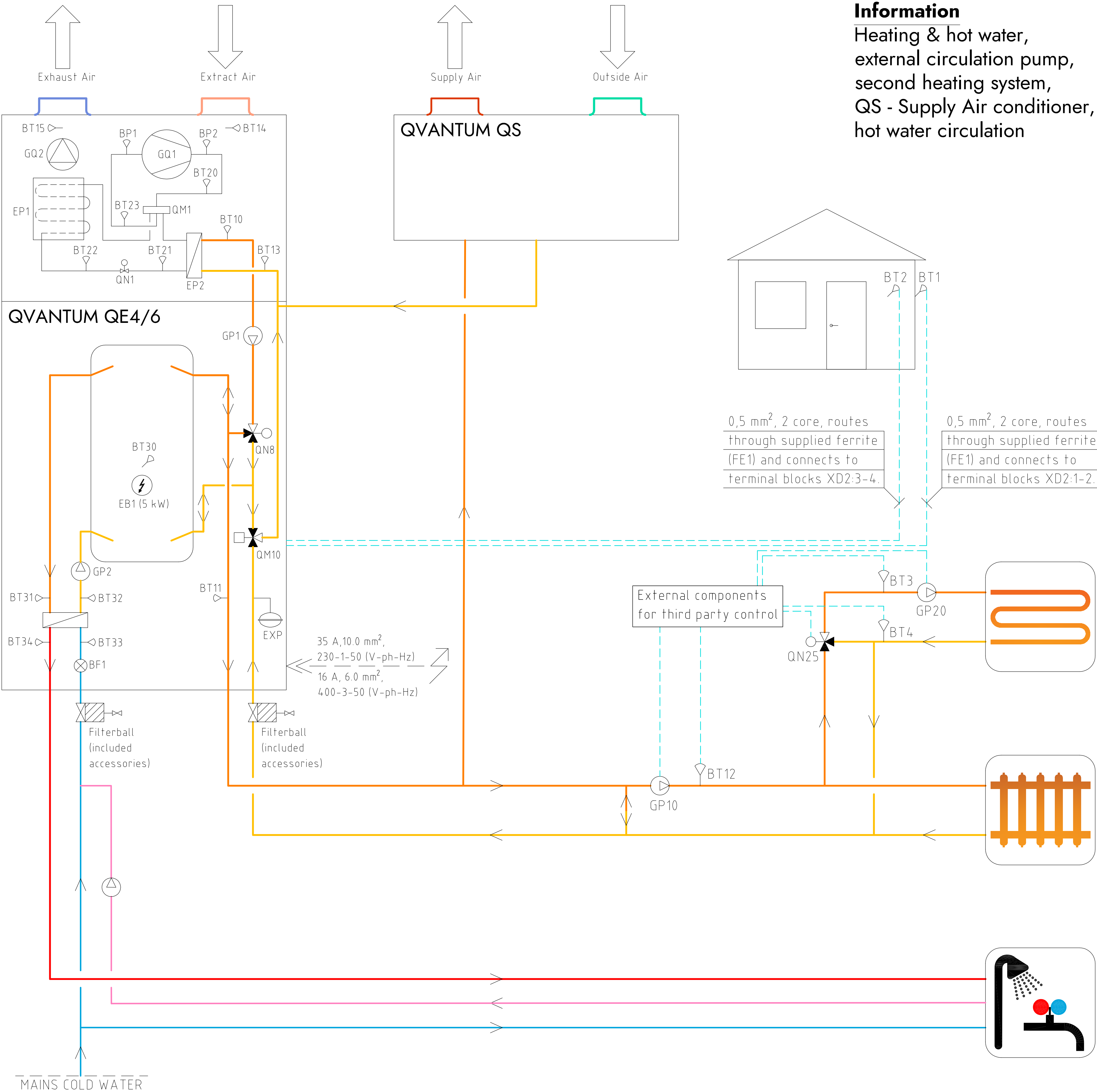
- GQ1 Compressor
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- QN8 Shunt valve
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- BT15 Exhaust air outlet
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- BT22 Evaporating temperature
- BT23 Suction gas temperature
- BT30 Tank temperature
- BT31 Plate heat exchanger inlet
- BT32 Plate heat exchanger outlet
- BT33 Cold water inlet
- BT34 Hot water outlet
- BP1 Suction gas pressure
- BP2 Discharge pressure
- BF1 Flow sensor

- BT12 External flow temperature
- GP10 External circulation pump, heating

- BT3 Heating flow, sec heating
- BT4 Heating return, sec heating
- GP20 Circulation pump, sec heating
- QN25 Shunt valve, sec heating


REV	REVISION TYPE	DATE	SIGN
PHASE	-		
QUANTUM INDUSTRIES QE series- docking principle QE4 & QE6			
 QUANTUM HEAT PUMPS FOR SUSTAINABLE CITIES			
A	XXX	phone XXX-XXX	fax XXX-XXX
K	XXX	phone XXX-XXX	fax XXX-XXX
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BR	XXX	phone XXX-XXX	fax XXX-XXX
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PROJECT NUMBER	DRAWN BY J.E.	MANAGED BY	
DATE	APPROVED BY		
Quantum Industries QE series - docking principle QE4 & QE6			
SCALE	DRAWING NUMBER	REV	
-	QE46-56-8-008		



Information
Heating & hot water,
external circulation pump,
second heating system,
QS - Supply Air conditioner,
hot water circulation

- EXPLANATION**
- GQ1 Compressor
 - GQ2 Fan
 - EP1 Evaporator
 - EP2 Condenser
 - QM1 4-way valve
 - QM10 Diverting valve
 - QN8 Shunt valve
 - EB1 Immersion heater
 - GP1 Circulation pump heating
 - GP2 Circulation pump hot water

- BT1 Outdoor sensor
- BT2 Room sensor
- BT10 Condenser outlet
- BT11 Heating flow temperature
- BT13 Condenser inlet
- BT14 Extract air inlet
- BT15 Exhaust air outlet
- BT20 Discharge temperature
- BT21 Liquid line temperature
- BT22 Evaporating temperature
- BT23 Suction gas temperature
- BT30 Tank temperature
- BT31 Plate heat exchanger inlet
- BT32 Plate heat exchanger outlet
- BT33 Cold water inlet
- BT34 Hot water outlet
- BP1 Suction gas pressure
- BP2 Discharge pressure
- BF1 Flow sensor
- BT12 External flow temperature
- GP10 External circulation pump, heating
- BT3 Heating flow, sec heating
- BT4 Heating return, sec heating
- GP20 Circulation pump, sec heating
- QN25 Shunt valve, sec heating

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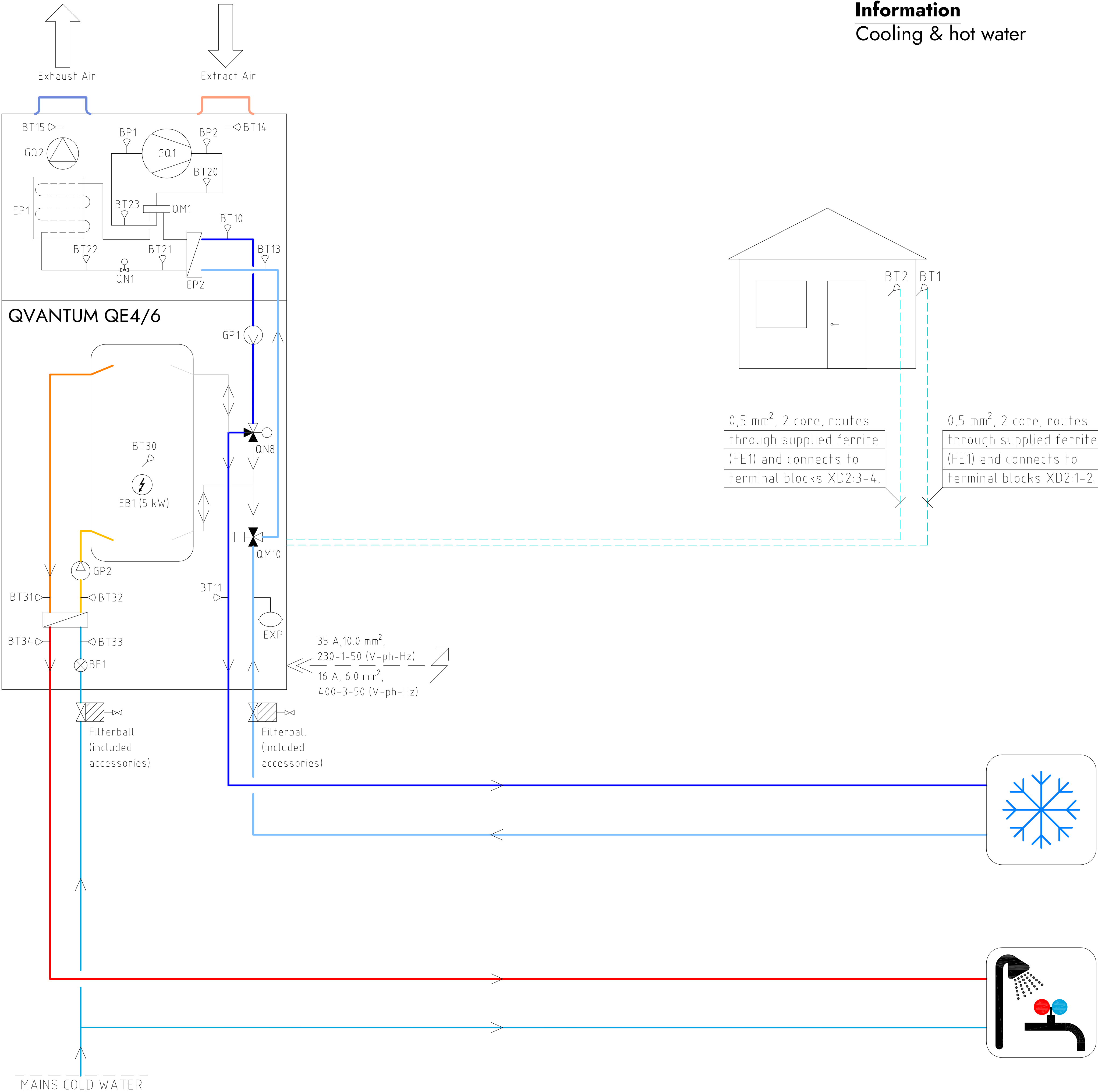
Information


Cooling & hot water

EXPLANATION

- GQ1 Compressor
GQ2 Fan
EP1 Evaporator
EP2 Condenser
QM1 4-way valve
QM10 Diverting valve
QN8 Shunt valve
EB1 Immersion heater
GP1 Circulation pump heating
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- BT1 Outdoor sensor
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PROJECT NUMBER	DRAWN BY	MANAGED BY	
-	J.E.		
DATE	APPROVED BY		
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Quantum Industries QE series - docking principle QE4 & QE6			
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