

AIR FALCON 212 C11AT200

- INVERTER AIR/WATER HEAT PUMP
- INCL. VERTICAL SPLIT EVAPORATOR (COMPRESSOR ON OUTSIDE)
- MULTITOWER
- HEATING OR HEATING/COOLING
- OTS CONTROLLER

APPLIANCE DATA

Order no.		286700
Suitable building heat load	kW	6 - 10
Max. flow temperature	°C	60

Indoor unit

Dimensions (HxWxD)	mm	1,942x693x809
Tilt height	mm	2,240
Hydraulic assembly connection (dimension)	inch	1
Hydraulic assembly connection (connection type)		Female thread
Liquid line connection (external diameter)	mm	8
Hot gas line connection (external diameter)	mm	16
Weight (excl. packaging) / Filled weight	kg	203 / 471
Standard colour		White
Sound power level (EN 12102)	dB(A)	27
Sound pressure level (at 1 m)	dB(A)	19.2

DHW tank

Nominal capacity	l	168
Internal indirect coil capacity	l	21
Draw-off rate	l/min	25
Max. permissible operating pressure	MPa	0.70
Test pressure	MPa	1.50
Standby heat loss	W	55
Tank material		Enamelled steel
Energy efficiency class		B

Buffer tank

Nominal capacity	l	100
Max. permissible operating pressure	MPa	0.30
Test pressure	MPa	0.45
Tank material		Steel

Outdoor unit

Dimensions (HxWxD)	mm	998x940x384
Weight (excl. packaging)	kg	73
Standard colour		Grey (RAL 7016)
Casing type		Steel, painted
Number of fans	pce	1
Sound power level (EN 12102) / Sound pressure level (at 3 m)	dB(A)	60 / 42.2 Nominal
Sound power level (EN 12102) / Sound pressure level (at 3 m)	dB(A)	58 / 40.2 Silent mode
Evaporator type		Finned tube
Evaporator material (WQA)		Copper/aluminium

HEAT SINK SYSTEM

Heat transfer medium		Water
Max. heat transfer medium op. pressure	bar	3
Temperature differential (WNA)	K	5
Flow rate (WNA)	m³/h	0.9
Residual head (WNA)	mbar	500
Flow meter		internal
3-way switching module (DHW)		internal
Circulation pump		internal
Condenser type (WNA)		Plate heat exchanger
Condenser material (WNA)		Stainless steel 1.4301

ELECTRICAL DATA

Frequency	Hz	50
Power factor		0.7
Voltage fluctuations/flicker		≤16A: EN 61000-3-3
Harmonics		≤16A: EN 61000-3-2
Max. network impedance (Zmax)	Ohm	-

Rated voltage ranges

Heat pump	V	~380-400	3/N/PE
Compressor and fan	V	~380-400	3/N/PE
Electric auxiliary heater, stage 1	V	~220-240	L2/N/PE
Electric auxiliary heater, stage 2	V	~220-240	L3/N/PE
Control circuit	V	~220-240	L1/N/PE

Rated power consumptions

Compressor and fan	kW	3.98
Electric auxiliary heater, stage 1	kW	2.9
Electric auxiliary heater, stage 2	kW	2.9

Fuse protection

Compressor and fan		1x B20A 3p
Electric auxiliary heater, stage 1		1x B16A 1p
Electric auxiliary heater, stage 2		1x B16A 1p
Control circuit		1x B13A 1p

Rated currents

Compressor and fan	A	20
Electric auxiliary heater, stage 1	A	15
Electric auxiliary heater, stage 2	A	15
Control circuit	A	6.3
Max. starting current	A	9.8

REFRIGERANT CIRCUIT

Refrigerant		R32
Refrigerant charge	kg	1,4
Max. refrigerant operating pressure	bar	48
Compressor type		Rotary piston
Defrost technology		Refrigerant circuit reversal

PERFORMANCE FIGURES

A7/W27 (EN 14825)

Heating output	kW	2.68
Power consumption	kW	0.44
Coefficient of performance (COP)		6.12

A7/W35 (EN 14511)

Heating output	kW	5.36
Power consumption	kW	1.06
Coefficient of performance (COP)		5.05

A7/W55 (EN 14511)

Heating output	kW	5.56
Power consumption	kW	1.86
Coefficient of performance (COP)		2.99

A2/W30 (EN 14825)

Heating output	kW	4.38
Power consumption	kW	1.08
Coefficient of performance (COP)		4.07

A2/W35 (EN 14511)

Heating output	kW	4.19
Power consumption	kW	1.22
Coefficient of performance (COP)		3.44

A-7/W34 (EN 14825)

Heating output	kW	7.06
Power consumption	kW	2.85
Coefficient of performance (COP)		2.48

A35/W18 (EN 14825)

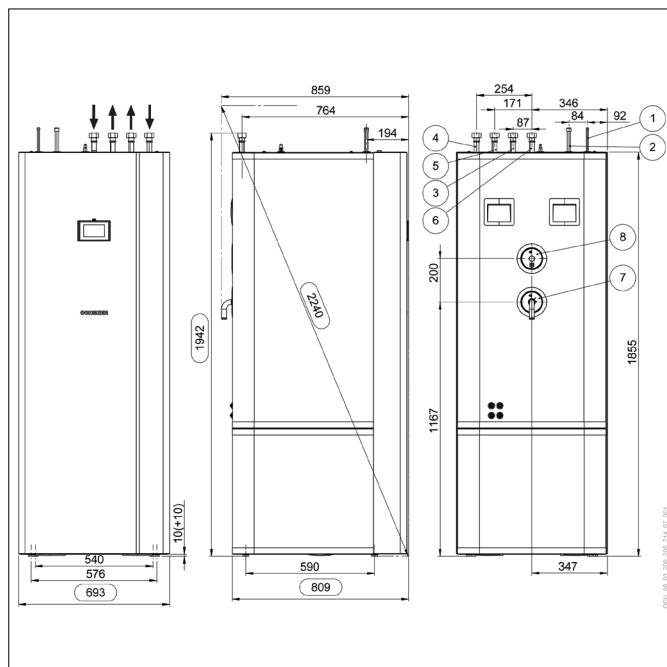
Cooling capacity	kW	7.41
Power consumption	kW	1.70
Energy efficiency ratio EER		4.37

ENERGY EFFICIENCY, DHW HEATING

Energy efficiency class (F to A+)		A+
Load profile		L
DHW heating efficiency, ETAwh	%	183.6

Notes:

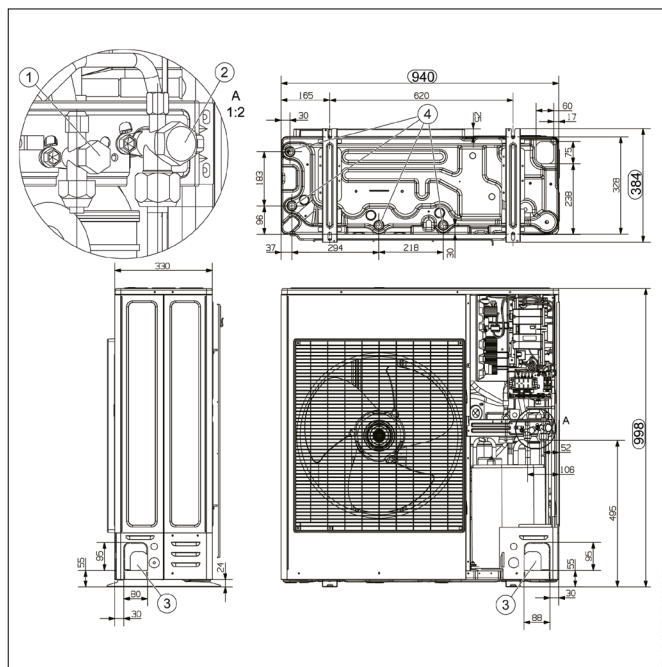
- Additional technical information and documents are available from the Download area at www.ochsner.com
- The applicable regional and national laws, standards and regulations must be observed.
- The specified sound levels are nominal values at A7/W55; they may be higher at lower outdoor temperatures.



- 1 Liquid line (refrigerant)
- 2 Hot gas line (refrigerant)
- 3 Heating water flow
- 4 Cold water inlet
- 5 DHW outlet
- 6 Heating water return
- 7 Safety valve drain
- 8 DHW circulation

ENERGY EFFICIENCY (AVERAGE CLIMATE ZONE, ERP)

at max. flow temperature (heating)	°C	35	55
Energy efficiency class (D to A+++)		A++	A++
P rated	kW	9	8
Efficiency ETAs	%	164.3	125.2
SCOP		4.18	3.21
at min. flow temperature (cooling)	°C	18	7
SEER		5.16	-



- 1 Liquid line (refrigerant)
- 2 Hot gas line (refrigerant)
- 3 Pipe entry points
- 4 Drainage holes

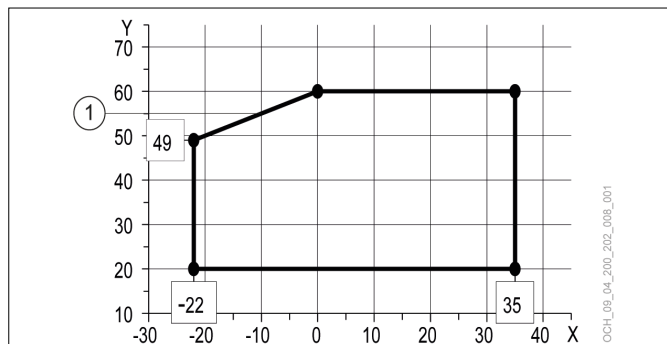
CONNECTION LINE

Max. line length	m	20
Max. height difference	m	15

RECOMMENDED ACCESSORIES

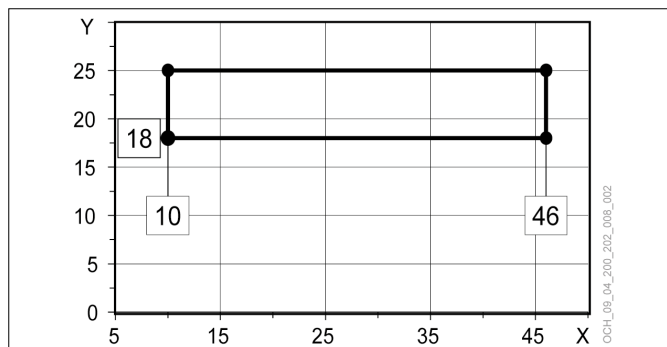
Type	Description	Order no.
Hydraulic shut-off set (4x)		290538
Set for external heating circulation pump 1)		290952

LIMITS OF USE: HEATING



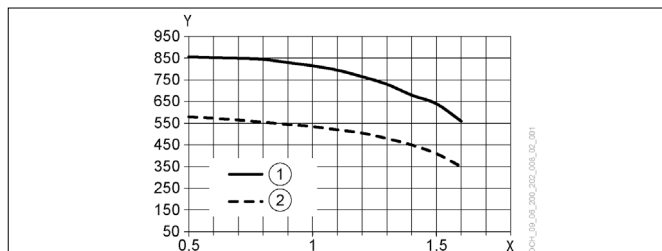
- X Outdoor temperature [°C]
Y Flow temperature [°C]
1 Maximum design flow temperature

LIMITS OF USE: COOLING



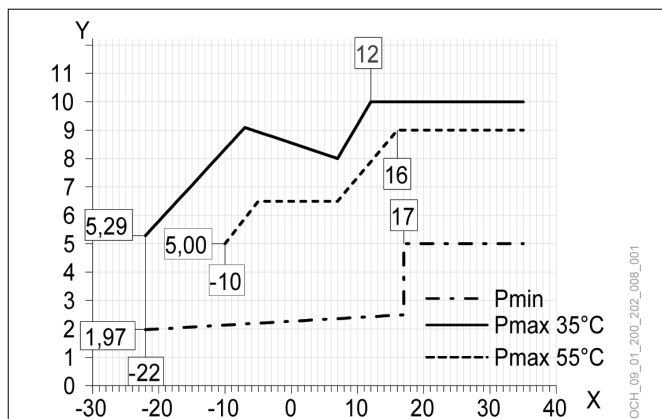
- X Outdoor temperature [°C]
Y Flow temperature [°C]

HEAT SINK SYSTEM: FLOW RATE



- X Flow rate [m³/h]
Y Residual head [mbar]
1 Residual pump head, max. output (stage 3)
2 Residual pump head, average output (stage 2)

HEATING OUTPUT



- X Outdoor temperature [°C]
Y Heating output [kW]
Pmin = min. output
Pmax 35°C = max. output at 35°C flow
Pmax 55°C = max. output at 55°C flow

1) When using an external heating circulation pump (e.g. heating circuit with mixing valve), replace the internal heating circulation pump with an adaptor (brass tube).