

AIR FALCON 212 C11A M1-5

- INVERTER AIR/WATER HEAT PUMP
- INCL. VERTICAL SPLIT EVAPORATOR (COMPRESSOR ON OUTSIDE)
- M1 INDOOR UNIT
- HEATING OR HEATING/COOLING
- OTS CONTROLLER

APPLIANCE DATA

Order no.		287400V
Suitable building heat load	kW	6 - 10
Max. flow temperature	°C	60

Indoor unit

Dimensions (HxWxD)	mm	1,289x400x683
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)	kg	101
Standard colour		White/anthracite
Sound power level (EN 12102)	dB(A)	27
Sound pressure level (at 1 m)	dB(A)	19.2

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
Min. flow rate, heating (WNA)	m³/h	0.50
Min. flow rate, cooling/defrost (WNA)	m³/h	0.85
Min. flow rate, DHW (WNA)	m³/h	0.50
Min. flow rate, auxiliary heater	m³/h	0.70
Flow meter		internal
3-way switching module (DHW)		internal
Circulation pump		internal
Diaphragm expansion vessel		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	2.6
Electric auxiliary heater, stage 2	kW	3.0

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	15.0
Electric auxiliary heater, stage 2	A	15.0
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 range	kW	2.4 - 8.0
Heating output	kW	2.68
Power consumption	kW	0.44
Coefficient of performance (COP)		6.12

A7/W35 (EN 14511)

Heating output range	kW	2.4 - 8.0
Heating output	kW	5.36
Power consumption	kW	1.06
Coefficient of performance (COP)		5.05

A7/W55 (EN 14511)

Heating output range	kW	2.4 - 6.5
Heating output	kW	5.56
Power consumption	kW	1.86
Coefficient of performance (COP)		2.99

A2/W30 (EN 14825)

Heating output range	kW	2.3 - 8.4
Heating output	kW	4.38
Power consumption	kW	1.08
Coefficient of performance (COP)		4.07

A2/W35 (EN 14511)

Heating output range	kW	2.3 - 8.4
Heating output	kW	4.19
Power consumption	kW	1.22
Coefficient of performance (COP)		3.44

A-7/W34 (EN 14825)

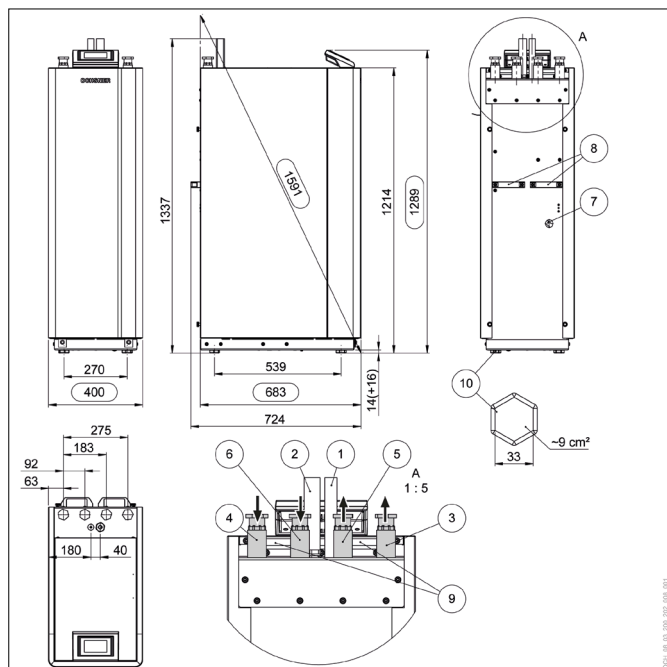
Heating output range	kW	2.2 - 9.1
Heating output	kW	7.06
Power consumption	kW	2.85
Coefficient of performance (COP)		2.48

A35/W18 (EN 14825)

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

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.

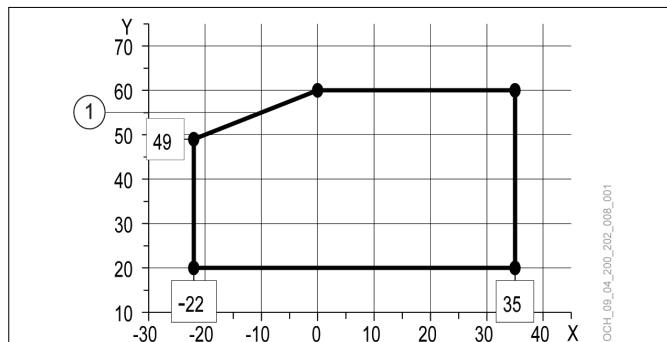


- 1 Liquid line (refrigerant)
- 2 Hot gas line (refrigerant)
- 3 Heating water flow
- 4 DHW return
- 5 DHW flow
- 6 Heating water return
- 7 Safety valve drain
- 8 Carrying handles (removable)
- 9 Cable entries
- 10 Plastic glides (height-adjustable, 4 pce)

ENERGY EFFICIENCY (AVERAGE CLIMATE ZONE, ERP)

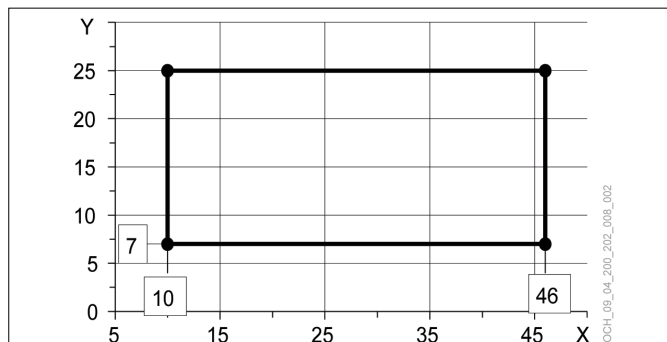
at max. flow temperature (heating)	°C	35	55
Energy efficiency class (D to A+++)		A++	A++
P rated	kW	9	8
Efficiency ETAs	%	164.3	125.2
SCOP		4.18	3.21
at min. flow temperature (cooling)	°C	18	7
SEER		5.16	3.33

LIMITS OF USE: HEATING

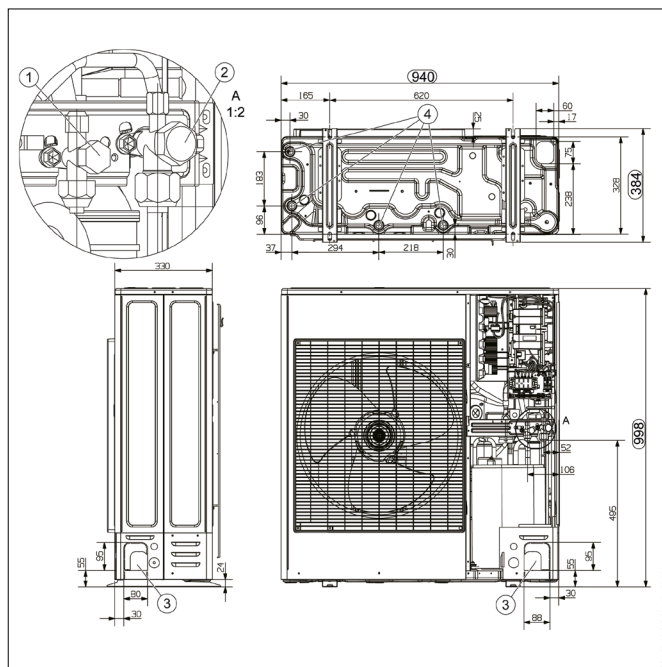


- X Outdoor temperature [°C]
Y Flow temperature [°C]
1 Maximum design flow temperature

LIMITS OF USE: COOLING



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



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

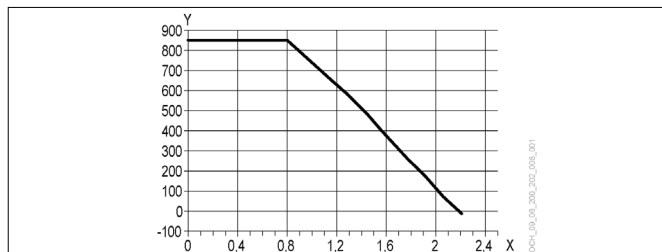
RECOMMENDED ACCESSORIES

Type	Description	Order no.
Hydraulic shut-off set (4x)		290538
DHW tank	min. SP 220	920889

CONNECTION LINE

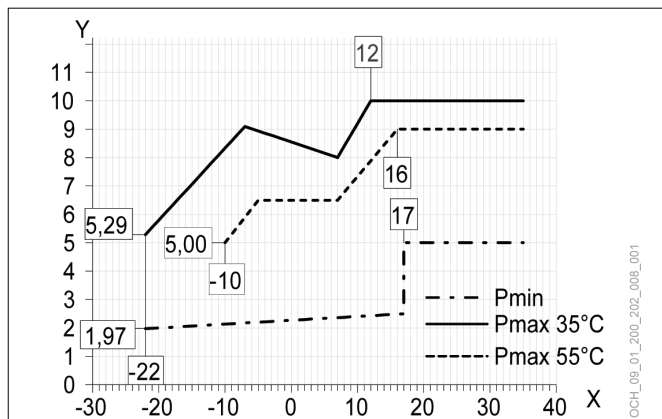
Max. line length	m	20
Max. height difference	m	15

HEAT SINK SYSTEM: FLOW RATE



- X Flow rate [m³/h]
Y Residual head [mbar]

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