AIR 41 C12A

- **AIR/WATER HEAT PUMP, SPLIT VERSION**
- **INCL. HORIZONTAL SPLIT EVAPORATOR**
- **M2/M4 INDOOR UNIT**
- **HEATING OR HEATING/COOLING**
- **OTE CONTROLLER**

APPLIANCE DATA

Order no.		287070V	
Suitable building heat load	kW	28 - 41	
Max. flow temperature	°C	65	
Indoor unit			
Dimensions (HxWxD)	mm	1289x600x680	
Hydraulic assembly connection (dimension)	inch	2	
Hydraulic assembly connection (connection type)		Male thread	
Liquid line connection (external diameter)	mm	18	
Suction gas line connection (external diameter)	mm	35	
Weight (excl. packaging)	kg	164	
Standard colour		White/anthracite	
Sound power level (EN12102)	dB(A)	56	
Sound pressure level (at 1 m)	dB(A)	47,5	
Outdoor unit			
Dimensions (HxWxD)	mm	1104x2224x965	
Weight (excl. packaging)	kg	180	
Standard colour		Grey (RAL 7016)	
Casing type		Stainless steel, coated	
Number of fans	pce	2	
Sound power level (EN12102) / Sound pressure level (at 3 m)	dB(A)	64 / 47	Nominal
Sound power level (EN12102) / Sound pressure level (at 3 m)	dB(A)	60 / 42	Silent mode
Evaporator type		Finned tube	
Evaporator material (WQA)		Copper/aluminium	

REFRIGERANT CIRCUIT

Refrigerant		R407C
Refrigerant charge	kg	16
Max. refrigerant operating pressure	bar	30
Compressor type		Scroll
Defrost technology		Hot gas

ELECTRICAL DATA

Frequency	Hz	50	
Power factor		0,88	
Voltage fluctuations/flicker		≤16A: EN 61000-3-3	
Harmonics		>16A: EN 61000-3-12	
Max. network impedance (Zmax)	Ohm	-	
Main power circuit			
Rated voltage range	V	~380-400	3/N/PE
Max. operating current	A	24,8	
Max. starting current	A	43,6	
Fuse protection		1x C25A 3p	
Control circuit			
Rated voltage range	V	~220-240	L1/N/PE
Rated current	A	6,3	
Fuse protection		1x C13A 1p	

HEAT SINK SYSTEM

Condenser type (WNA)		Plate heat exchanger
Condenser material (WNA)		Stainless steel 1.4301
Temperature differential (WNA)	K	5
Flow rate (WNA)	m³/h	6,0
Residual head (WNA)	mbar	406
Flow meter		internal
Circulation pump		internal
Heat transfer medium		Water
Max. heat transfer medium op. pressure	bar	3
Min. limits of use, heating / max.	°C	- / 65

PERFORMANCE FIGURES

A7/W35		
Heating output (EN14511)	kW	37,00
Power consumption (EN14511)	kW	8,80
Coefficient of performance COP (EN14511)		4,20
A2/W35		
Heating output (EN14511)	kW	28,00
Power consumption (EN14511)	kW	8,00
Coefficient of performance COP (EN14511)		3,50
A-7/W35		
Heating output (EN14511)	kW	26,00
Power consumption (EN14511)	kW	7,90
Coefficient of performance COP (EN14511)		3,30
A7/W55		
Heating output (EN14511)	kW	34,00
Power consumption (EN14511)	kW	11,30
Coefficient of performance COP (EN14511)		3,00
A35/W7		
Cooling capacity (EN14825)	kW	27,30
Power consumption (EN14825)	kW	13,00
Energy efficiency ratio EER (EN14825)		2,10

ENERGY EFFICIENCY (AVERAGE CLIMATE ZONE)

at max. flow temperature (heating)	°C	35	55
Energy efficiency class (D to A+++)		A++	A++
P rated	kW	29	29
Efficiency ETAs	%	150,3	134,3
SCOP		3,83	3,43
at min. flow temperature (cooling)	°C	18	7
SEER		-	-

CONNECTION LINE

Max. line length	m	16
Max. height difference	m	5

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.

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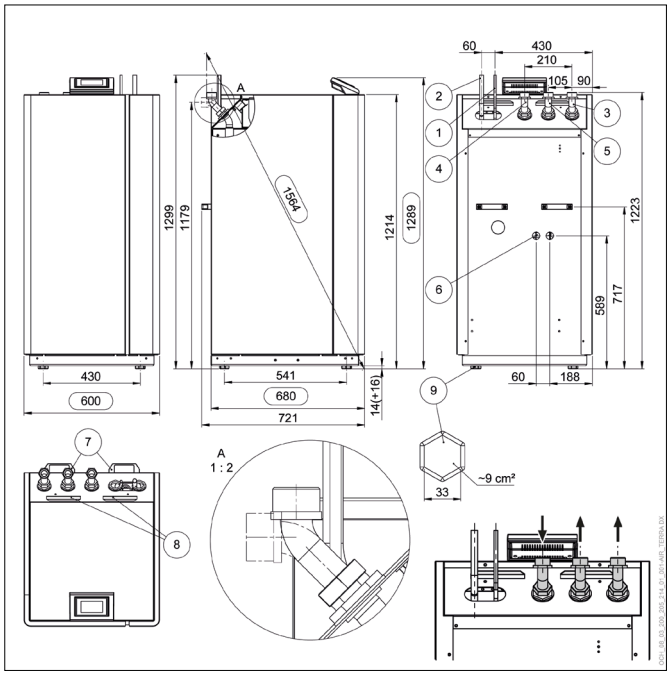
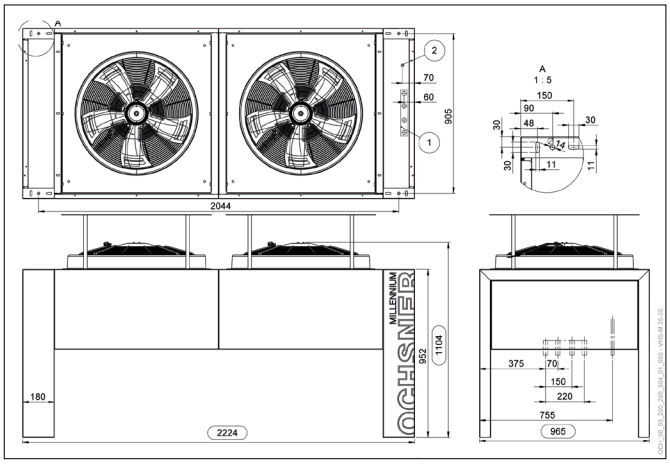
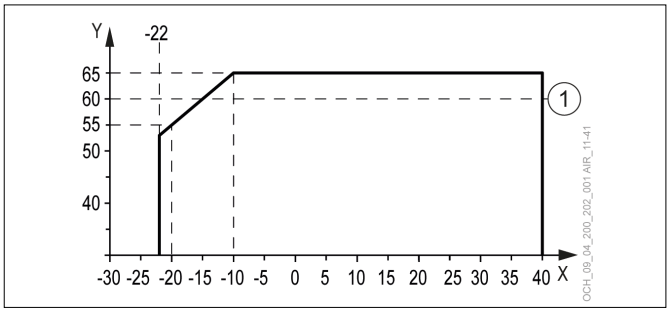


1 Liquid line (refrigerant)
2 Suction gas line (refrigerant)
3 Heating water flow
4 Heating water/DHW return
5 DHW flow
6 Safety valve drain
7 Carrying handles (removable)
8 Cable entries
9 Plastic glides (height-adjustable, 4 pce)



1 Suction gas line (refrigerant)
2 Liquid line (refrigerant)

LIMITS OF USE: HEATING

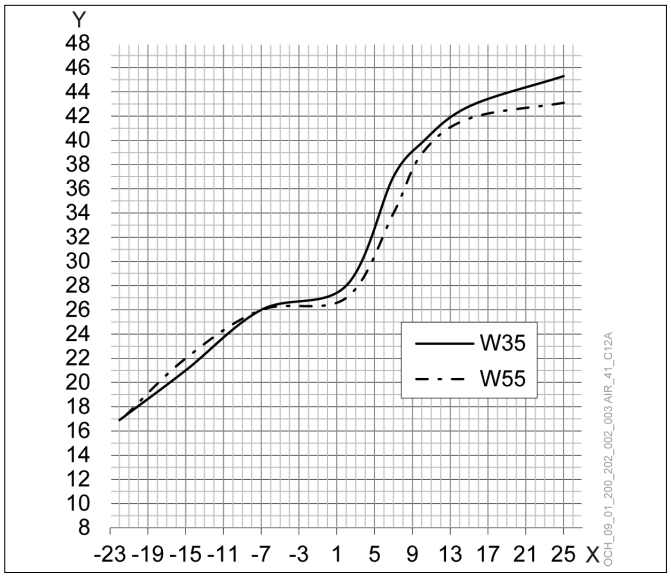


X Outdoor temperature [°C]
Y Flow temperature [°C]
1 Maximum design flow temperature

RECOMMENDED ACCESSORIES

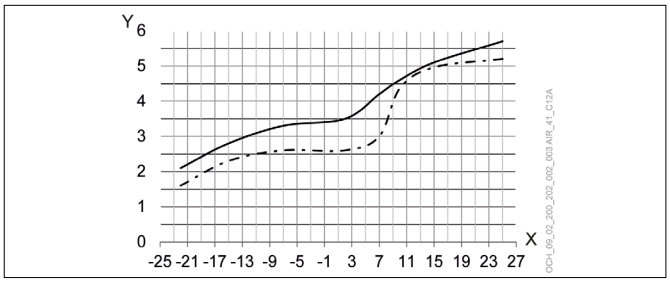
Type	Description	Sizing	Order no.
Heat pump buffer tank	min. PU 1000	30 l/kW at A2/W35	920832
DHW tank	min. SP 750	30 l/kW at A2/W50	920584
External plate heat exchanger	PHE 9507, Prim. 2 inch, Sec. 2 inch	Pressure loss: Prim. 65 mbar, Sec. 90 mbar	911316
3-way switching module external	DN50 (2 inch), kvs 40	Pressure loss: 23 mbar	290342
External electric immersion heater (heat pump buffer tank) [1]	9,0 kW	Number: 2	922509
External electric immersion heater (heat pump buffer tank) [1]	6,0 kW	Number: 2	922508

HEATING OUTPUT



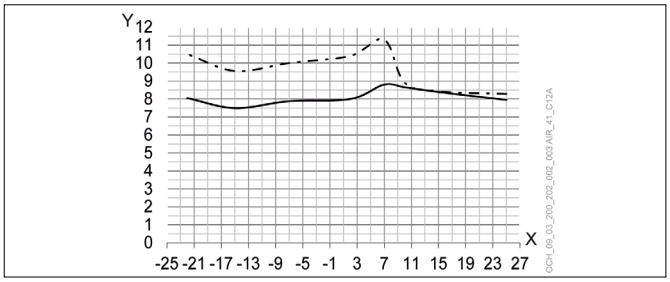
X Outdoor temperature [°C]
Y Heating output [kW]

COP



X Outdoor temperature [°C]
Y COP

POWER CONSUMPTION



X Outdoor temperature [°C]
Y Power consumption [kW]

[1] For an air/water heat pump, an additional heat generator (e.g. electric immersion heater) is essential.