

30RBSY 050D

Ducted air-cooled liquid chiller with scroll compressor

Performance Information		
Mode		Cooling
Cooling Capacity ⁽¹⁾	kW	62.4
Cooling Efficiency (EER) ⁽¹⁾	kW/kW	3.13
Unit Power Input ⁽¹⁾	kW	20.0
Sound Power Level at Discharge (LwA) ⁽¹⁾	dB(A)	84.3
Sound Power Level Radiated (LwA) ⁽¹⁾	dB(A)	84.4
Sound Pressure Level Radiated at 10.0m (LwA) ⁽¹⁾	dB(A)	52.8

(1) All performances are compliant with EN14511 – 3 : 2018. Sound power level according to ISO9614 – 1.

Operating Conditions		
System element		Cooling
Water heat exchanger		Fresh Water
Fluid	Fluid Type	
	Fouling Factor (sqm-K)/kW	0
	Leaving Temperature °C	14.0
	Entering Temperature °C	19.0
	Fluid Flow l/s	2.99
Hydronic Module	External Static Pressure kPa	111
	Pump Power Input kW	1.50
Air heat exchanger		
Air Flow Data	Entering Air Temperature °C	35.0
	External Static Pressure at 20°C Pa	160
	Total Air Coil Flow at 20°C l/s	4111
Altitude	m	0

Unit Configuration	
116R	HP single-pump hydraulic module
25	Compressor Soft Starter
266	Welded evaporator connection kit
293	Expansion tank
307	Water buffer tank module
331	Plastic tarp
42B	Exchanger & hydraulic frost protection
6B	Low-temperature brine solution
70	Main disconnect switch without fuse
EU	Europe Compliance



Non contractual picture

Seasonal Efficiency ⁽²⁾		
Allowed applications for CE mark:		
Comfort Cooling : T>=2°C	SEER 12/7°C ηs cool	4.02 158
Comfort Cooling : T>=13°C	SEER 23/18°C ηs cool	4.75 187
Medium Temp. Process Cooling : T<2°C*	SEPR -2/-8°C	3.49
High Temp. Process Cooling : T>=2°C	SEPR 12/7°C	5.66



* ECODESIGN Compliant as per regulation (EU) N°2015/1095

(2) All data related to seasonal efficiency are given for standard units and main options (Brine, pump, energy efficiency,...).

Unit Information		
Manufacturing Source		Montluel
Refrigerant type		R410A
Refrigerant Weight	kg	6
Tonnes CO2 Equivalent	Tonnes	12.3
Number of Refrigerant Circuit		1
Number of Passes (Evaporator)		1
Number of Compressor		2
Number of Fan		1
Fan Power Input	kW	2.22
Operating / Shipping Weight	kg	893/585
Unit Dimensions (LxWxH)	mm	2100x1132x1971

Electric Information		
Unit Voltage	V-Ph-Hz	400-3-50
Standby Power	kW	0.142
Power Factor		0.840
Electrical Circuit		Supply 1
Maximum Current	A	54
Startup Current	A	103

Documentation	
	PSD
	IOM
	Technical drawing
	Revit file

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Outlet Air duct systems				
Air Duct Conditions		Cooling Mode		
Air duct pressure drop (Pa)	Fan velocity (rpm)	Cooling cap variation	EER variation	Power input variation
0 (Unducted)	720.0	1.000	1.006	0.994
50	800.0	1.000	1.004	0.996
100	880.0	1.000	1.002	0.998
130	928.0	1.000	1.001	0.999
160	976.0	1.000	1.000	1.000
200	1039.0	0.998	0.986	1.012
240	1102.0	0.996	0.973	1.023