

COMMERCIAL-INDUSTRIAL SERIES

CMCSU / R32 - MODULAR CHILLERS

Features



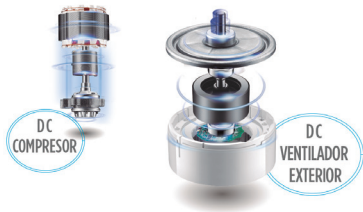
Wired control included



Main Features

Inverter Technology

The Coolwell modular chillers are made with DC Inverter technology with Twin Rotary Inverter compressor and inverter fans, which guarantee high efficiency.



Smart Product

The Coolwell modular chillers have a control: Centralized and automatic: A single control can manage up to 16 units together (a total of 960 kW). They are also equipped with dry contacts for stop/start, cold/heat and alarm. Control with different work modes: Cooling, heating and water. Daily and weekly timer. Fan speed control: the unit can work cooling at low temperatures.

Wide Operating Range

The Coolwell CMCSU model offers 80% heating capacity at -7°C and reliable antifreeze protection at -20°C. The outlet temperature in cooling mode is 0°C and the maximum outlet temperature in heating mode is 55°C.



Auto-Protection And Auto-Diagnosis

Coolwell CMCSU chillers incorporate as standard an adjustment range for the outlet water from 0 to 17°C for cooling and from 22 to 50°C for heating.



CMCSU R32 - MODULAR CHILLERS

AIR / WATER

Unit code			CMCSU 30 R32	CMCSU 60 R32	CMCSU 90
Power supply		F-V-Hz	Three phase 380-415V 50Hz		
Refrigeration	Capacity	KW	27.5	55	83
	Input power	KW	11	23	37.2
	EER		2.5	2.39	2.23
	SEER		4.25	4.03	4.32
Heating	Capacity	KW	32	62	90
	Input power	KW	10.7	21.5	32.3
	COP		2.99	2.88	3.28
	SCOP		3.99	3.71	3.99
Unit	Dimensions (L-A-P)	mm	1870x1175x1000	2200x1325x1055	3220x1095x1513
	Net weight	Kg	315	515	710
	Air flow (Max)	m³/h	12500	24000	38000
	Compressor type		Twin Rotatory Inverter		
	Sound pressure (Max)	dB(A)	65.1	67	85
	Hydraulic kit	Water flow	m³/h	5	9.8
Water pressure range		MPa	0.05 / 1		
Evaporator pressure drop		KPa	130	200	-
Hydraulic connections			DN40	DN50	DN50
Max. pump pressure		Mpa	1	1	1
Pump water flow		m³/h	4.7	10	10
Expansion tank		l	4.2	4.2	12
Refrigerant gas	Refrigerant type		R32	R32	R410
	Refrigerant charge	Kg	*	*	27
Operating limits	Outlet water temperature (Min / Max)	Refrig. °C	5 / 20	5 / 20	5 / 20
		Heat. °C	25 / 54	25 / 54	25 / 54
	Outdoor temperature (Min / Max)	Refrig. °C	-10 / 43	-10 / 43	-10 / 43
		Heat. °C	-14 / 30	-14 / 30	-14 / 30

Refrigeration: Outdoor air temperature: 35 °C; Dry bulb. Cold water inlet: 12 °C, Water outlet: 7 °C.

Heating: Outdoor air temperature: 7 / 6 °C Dry bulb / Wet bulb. Hot water inlet: 40 °C, Water outlet: 45 °C.

* R32 CMCSU chillers come without refrigerant.