PACKAGED HWHP NEW

PACKAGED - AIR TO WATER / QAHV - DOMESTIC HOT WATER

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Ecodan QAHV is a packaged air condensed outdoor unit for massive hot water production at high temperature.

Technical specifications

- Water temperature: up to 90°C
- DC Scoll Inverter compressor
- Operating field: -25/+46°C
- CO_2 Natural Refrigerant
- GWP (global warming potential)=1
- ODP (ozone depletion potential)=0
- HIGH COP
- Power 40kW
- Cascade system up to 640kW
- M-Net compatible

Hot water production system

Econdan QAHV is the innovative solution by Mitsubishi Electric for high temperature hot water production, using CO2 as refrigerant gas. This allows to supply hot water at high temperatures, up tp 90°C and 40kW capacity. QAHV finds his application in those contexts which need continuous and stady hot water supply, such as hotels, nursing homes, wellness center and schools.

CO_2 as refrigerant gas

CO_2 can be found in nature, it is not toxic or harmful to the environment. It does not contributes to ozone depletion (ODP=0) and its contribution to global warming is negligible (GWP=1).

Operating filed extended to -25°C

Thanks to "Flash-Injection Circuit" (same as VRF CITY MULTI ZUBADAN Y) Packaged unit QAHV can operate between -25°C and +43°C. Moreover, the unit is able to supply hot water at 90°C and 40kW capacity down to -3°C.

High efficiency

New Packaged QAHV grants and high COP when meeting certain conditions. Water temperature difference between supply and return is fondamental for high performances.

Technical specifications DOMESTIC HOT WATER

MODELLO			QAHV-N560YA-HPB
Power supply			3-phase 380-400-415V 50/60Hz
Nominal heating capacity *1		kW	40
	Power input	kW	10,31
	Current	A	17,8-16,9-16,3
	COP		3,88
Nominal heating capacity*2		kW	40
	Power input	kW	10,97
	Current	A	20,0-19,0-18,3
	COP		3,65
Nominal heating capacity *3		kW	40
	Power input	kW	11,6
	Current	A	20,4-19,4-18,7
	COP		3,44
Temperature range*4	Supply	°C	55~90°C
	Outdoor	°C	-25 ~ +43
Energy efficiency heating rank in warm climate*5	Rank		A
Energy efficiency for heating in warm climate*5	ηwh		103%
Circulation pump			included
Circulation pump pressure		kPa (l/min)	77 kPa (17 l/min)
Water piping diameter		mm	19,05 (3/4")
		mm	19,05 (3/4")
Sound pressure level at 1 m		dB(A)	56
External dimentions		mm	1837 (1777 not including legs)x1220x760
Net weight		kg	400
Water pressure		Mpa	1
Ref. Charge R744*6/Eq CO_2		kg/Tons	6,5/0,0065

Nota:
*1 Heating nominal conditions: outdoor temperature 16°CBS/12°CBU; supply water temperature 65°C; inlet water temperature 40°C
*2 Heating nominal conditions: outdoor temperature 7°CBS/6°CBU; supply water temperature 65°C; inlet water temperature 9°C
*3 Heating nominal conditions: outdoor temperature 7°CBS/6°CBU; supply water temperature 65°C; inlet water temperature 15°C
*4 Refer to installation and instruction manual.
*5 Warm conditions: solar radiation and outdoor temperature condition of Strasburg.
*6 GWP of R744 equals to 1 according to regulation 517 / 2014
* Do not install where wet bulb temperature exceeds 32°C
* Comply with water quality specification as reported in technical documentation.