MARD series 10~100

REFRIGERATION **COMPRESSED AIR DRYER**

mindman

Features

- Multi-function controller one touch ON/OFF, additional operating status, and alarm indicator.
- Eco-friendly HFCs. Reduce energy consumption also mitigating global warming damage.
- SUS304, corrosion resistance avoid pollution.
- Fully automatic loading control by pressure switch and hot gas by-pass valve.
- Epoxy treatment for aluminum fin surface. Extended lifetime.
- 2 in 1 compact heat exchanger and evaporator design. Low pressure drop.
- Reverse tube and fin heat exchanger design high efficiency and save space.
- External float auto drain, easy maintenance. With spare manual valve.

Specification

Model	MARD-10NP	MARD-15NP	MARD-25NP	MARD-40NP	MARD-50NP	MARD-60NP	MARD-75NP	MARD-100NP
Max. capacity (Nm^3/min)	1.6	2.8	4.0	5.5	7.0	8.1	10.6	15.0
Connection (inch)	Rc1	Rc1	Rc1	Rc1 1/2	Rc1 1/2	Rc1 1/2	Rc2	Rc2
Power supply	220V/1ø/60Hz						380V/3ø/60Hz	
Ref. comp. (kw) ±5%	0.43	0.70	1.06	1.58	1.58	1.58	3.5	3.5
Refrigerant	R134a			R410a				
Dimension L W H (mm)	800 430 690		850 430 796	1150 530 856			1350 630 890	1500 630 890
Net weight (kg)	55	63	74	111	114	118	178	186

Correction factor

Working pressure (MPa)	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Correction factor (Fp)	0.8	0.88	0.94	1.0	1.04	1.06	1.09
Inlet temperature(°C)	50	55	60	65	70		
Correction factor (Fti)	1.0	0.95	0.85	0.72	0.58		
Ambient temperature (°C)	30	38	40	45	50		
Correction factor (Fta)	1.1	1.0	0.9	0.79	0.63		
Dew point (°C)	3	5	7	10	15		
Correction factor (Ftd)	0.7	0.85	0.91	1.0	1.2		

Design condition

Capacity: @20°C 0.1 MPa (a)
Inlet temperature: 50°C
Working pressure: 0.7 MPa
Dew point: 10°C
Pressure drop: <0.025 MPa
Ambient temperature: 38°C

Operating scope

Inlet temperature: 70°C max.
Ambient temperature: 2~50°C
Operating pressure range: 0.4~1.0 MPa

Remarks

Customize products available.

Formula

= Fp × Fti × Fta × Ftd