KNAPS
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R410A COMMERCIAL HEAT PUMP

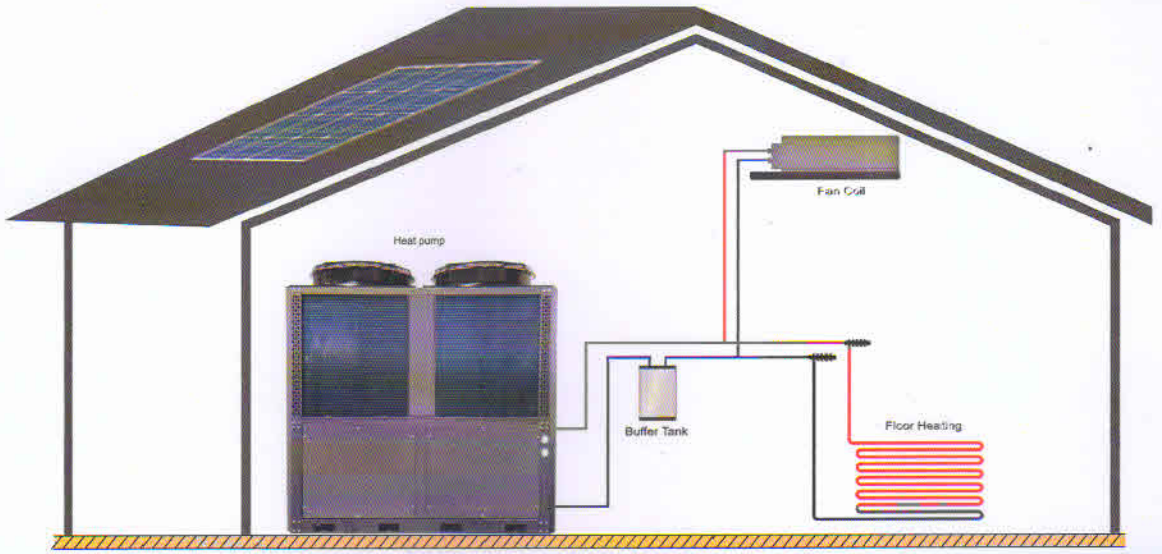
Heating / Cooling / DHW / Commercial Type



R410A | MODBUS

Features

- R410A refrigerant, environmental friendly
- Higher water temperature output up to 55 °C
- Adopt EVI technology, the operation ambient temperature can reach at -25 °C
- High pressure protection
- Defrost automatically
- With MODBUS communication
- Adapt intelligent controller, full automatically operation
- Through different installation, the system can be used for cooling or heating



Heat Pumps in Action: Various Application Scenarios

T E C H N I C A L D A T A

Model		DLN-050TA1	DLN-100TA1	DLN-200TA1	DLN-400TA1
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Heating Capacity at Air 7°C/6°C, Water 30°C in, 35°C out					
Heating Capacity	kBTU/h	153.55	307.09	614.19	1194.25
Heating Capacity	kW	45	90	180	350
Power Input	kBTU/h	35.15	70.97	143.31	277.75
Power Input	kW	10.3	20.8	42	81.4
COP	/	4.36	4.32	4.25	4.30
Heating Capacity at Air 7°C/6°C, Water 50°C in, 55°C out					
Heating Capacity	kBTU/h	122.84	228.61	569.83	1119.18
Heating Capacity	kW	36	67	167	328
Power Input	kBTU/h	52.89	86.94	193.47	388.64
Power Input	kW	15.5	25.48	56.7	113.9
COP	/	2.32	2.63	2.95	2.88
Heating Capacity at Air -12°C/-14°C, Water 50°C in, 55°C out					
Heating Capacity	kBTU/h	81.89	136.49	365.10	699.49
Heating Capacity	kW	24	40	107	205
Power Input	kBTU/h	52.55	85.30	184.26	356.91
Power Input	kW	15.4	25	54	104.6
COP	/	1.55	1.60	1.98	1.96
Cooling Capacity at Air 35°C/24°C, Water 12°C in, 7°C out					
Cooling Capacity	kW	30	60	140	268
Power Input	kW	11.9	22.9	43.8	87.9
EER	/	2.53	2.62	3.19	3.05
Max Power Input	kW	16.8	36.5	70.1	145.0
Max Current	A	31.5	63.3	132.5	260.0
Compressor quantity	/	1	2	2	4
Expansion Valve	/	Saginomiya/EEV	Saginomiya/EEV	Danfoss/EEV	Danfoss/EEV
Air Flow Direction	/	Vertical	Vertical	Vertical	Vertical
Water Flow Volume	m^3/h	8	16	32	60
Water Pressure Drop	kPa	50	50	48	50
Dimensions(L*W*H)	mm	1252*1076*1870	2198*1096*2176	2300*1150*2400	2800*2200*2450
Container Loading quantity(20GP/40HQ)	/	9/20	5/11	-/10	-/4
Working temperature range	°C	-25 ~ 48	-25 ~ 48	-25 ~ 48	-25 ~ 48
Noise	dB(A)	≤62	≤67	≤70	≤76
IP class	/	IPX4	IPX4	IPX4	IPX4
Net Weight	kg	450	800	1330	2186
Water connection	mm	DN 40	DN 50	Flange DN 80	Flange DN 100

* Please refer to the nameplate for product upgrades or changes in specifications without prior notice.