DEPLUS

INVERTER HEAT PUMP CONDENSING UNIT



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INVERTER HEAT PUMP CONDENSING UNIT

- R454b A2L refrigerant with a low GWP rating of 466.
- Energy-efficient twin-rotary compressor from GMCC.
- Full DC motor from Broad Ocean.
- High quality condenser with inner-groove copper tube and aluminum fin.
- Multiple protection sensors ensure stable operation of the system.
- Outstanding defrosting function with 6 different modes.
- AHRI Listed (2023 SEER2) & ETL Certification.
- Wide operation temperature range.
- RS485 communication (optional)



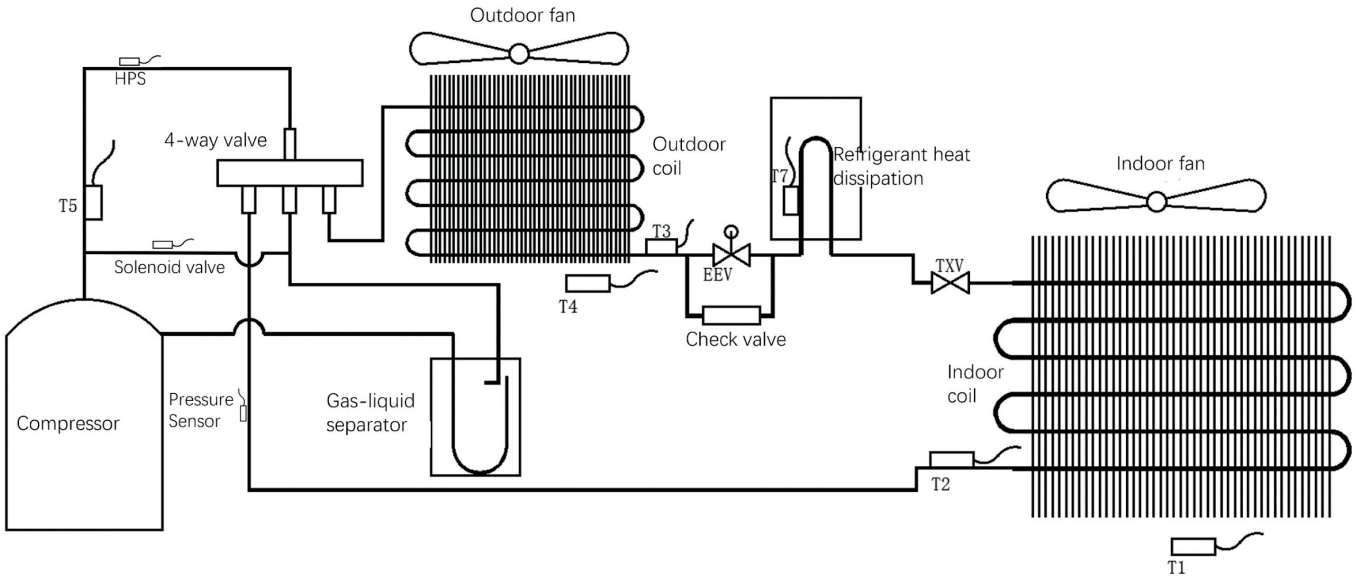
R454B

up to 20 SER2 HIGH EFFICIENCY

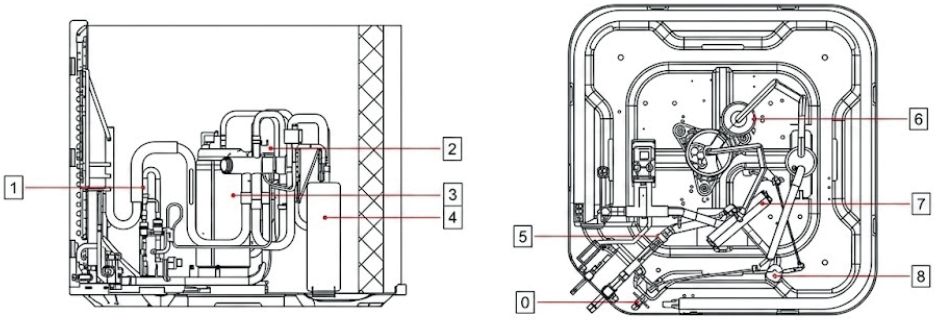
DP-HP36HNR8 (2.0TON / 3.0TON)

DP-HP60HNR8 (4.0TON / 5.0TON)

SYSTEM DIAGRAM



PRODUCT STRUCTURE EXPLANATION



1	EXV
2	High pressure switch
3	Compressor
4	Accumulator
5	Pressure sensor
6	Oil separator
7	Reversing valve
8	Solenoid valve
9	Service valve

TECHNICAL SPECIFICATIONS

MODEL			DP-HP36HNR8		DP-HP60HNR8	
Electrical Data	Voltage-Phase-Hz	V-Ph-Hz	208/230V-1Ph-60Hz			
	Minimum Circuit Ampacity	A	15	20	25	30
	Max. Overcurrent Protection	A	20	30	35	45
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Refer to Room Area	square feet		365～660	536～990	709～1320	835～1650
Compressor	Model		TTM240D43UFTB	TTM240D43UFTB	TTQ440D1UMUA	TTQ440D1UMUA
	Brand		GMCC	GMCC	GMCC	GMCC
	Type		Rotary	Rotary	Rotary	Rotary
	Hz		18-100	18-100	18-100	18-100
	Capacity	W/h	6700	6700	13000	13000
	Input	W	1805	1805	3650	3650
	Rated current(RLA)	A	10	12.8	15.8	20
	Refrigerant oil	ml	920	920	1300cc	1300cc
	Refrigerant Oil Type		POE VG74			
	LRA		52	52	58.1	58.1
Outdoor motor	Model		S.TB-DQ-DRN-310-200-10	S.TB-DQ-DRN-310-200-10	S.TB-DQ-DRN-310-200-10	S.TB-DQ-DRN-310-200-10
	Brand		board-ocean	board-ocean	board-ocean	board-ocean
	Type		DC	DC	DC	DC
	Power	W	200	200	200	200
	Rated HP	HP	1/4	1/4	1/4	1/4
	Speed	rpm	1100	1100	1100	1100
	FLA (RLA)	A	1.8	1.8	1.8	1.8
Outdoor Fan	material		Metal			
	Type		Axial flow			
	Diameter	mm	ϕ595×115×ϕ12.7	ϕ595×115×ϕ12.7	ϕ595×115×ϕ12.7	ϕ595×115×ϕ12.7
Outdoor coil	Number of row		2	2	2	2
	Number of U-tubes		28		38	
	Tube outside dia	inch	9/32	9/32	9/32	9/32
	Fin spacing / Thickness / Type	mm / mm	1.4 / 0.095 / Hydrophilic aluminium			
	Length (outside/inside row)*Width*Height	mm	（2136/2076）*26.76*588		（2136/2073）*26.74*798	
	Tube pitch(a) × row pitch(b)	mm	13.37 × 21	13.37 × 21	13.37 × 21	13.37 × 21
Outdoor Sound power		dB(A)	76	79	76	79
Outdoor CFM		CFM	3900	3900	4440	4440

C ETL CM US LISTED Intertek

AHRI CERTIFIED® www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only When the complete system is listed with AHRI.

TECHNICAL SPECIFICATIONS

MODEL			DP-HP36HNR8		DP-HP60HNR8	
Oudoor unit	Dimension (W×H×D)	mm	750*635*750		750×835×750	
		inch	29-1/8×25×29-1/8		29-1/8×32-7/8×29-1/8	
	Packing (W×H×D)	mm	760×660×760		760×875×760	
		in.	30×26×30		30/16×34-4/9×3	
	Net / Gross weight	kg	64.5/69.2	62/66	85/ 89	85/ 89
		lbs	137/146	137/146	187 / 196	187 / 196
Refrigerant system	Liquid side / Gas side	in.	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
	Factory charge	oz	R454B/116.4	R454B/116.4	R454B/155.2	R454B/155.2
	Metering device		EEV	EEV	EEV	EEV
	Maximum Line Length	ft	100	100	100	100
	Maximum Elevation Difference	ft	50	50	50	50
communication wire		AWG	20	20	20	20
Operating temperatures	Cooling	℉	5-131	5-131	5-131	5-131
	Heating	℉	-4-86	-4-86	-4-86	-4-86



DEPLUS

ABOUT DEPLUS

DEPLUS is committed to delivering high-performance HVAC solutions that combine advanced technology, durability and energy efficiency. Our systems are designed to keep you comfortable, no matter where you are.



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