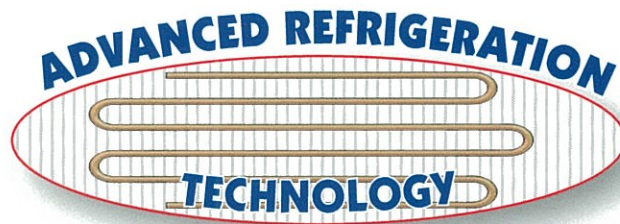


MAXIMISE SALES AND MINIMISE COSTS



Specialised Refrigeration Equipment Manufacturers & Supplier



Low Profile Horizontal Condensing Units



Ideal when height restrictions are critical.
Low and Medium Temp.
R404A and R134A.

Features and Benefits

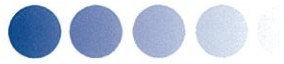
- High efficiency rotary compressor and motor can save more than 10% on energy savings.
- Available with refrigerants R404A and R134A Evaporating temperature from 0° to -40°.
Suitable for low and medium temperature applications.
- Condensing unit height is less than 295mm, resulting in more effective product volume in the cabinet.
- Horizontal rotary compressor.
- Liquid line filter drier supplied.
- Dual pressure control supplied and fitted.
- Quiet operation.
- EBM - EC condenser fan motors

LEADING THE INDUSTRY IN ENERGY EFFICIENCY

Customer Support ☒ Technical Advice ☒ Design Advice ☒

If you require support or advice, please contact Advanced Refrigeration Technology

Advanced Refrigeration Technology manufactures energy efficient Australian and overseas commercial refrigeration markets



HQHD (R404A) Series Condensing Unit (Polynomial) Low Temp

MODEL NO			HQHD-13KAR	HQHD-16KAR	HQHD-23KAR	HQHD-30KAR	HQHD-36KAR	HQHD-41MAR
POWER SUPPLY			SINGLE PHASE: 220V - 240V/50Hz					3PH - 380V/50Hz
REFRIGERANT MAX (kg)			R404A (1.2)	R404A (1.5)	R404A (2)	R404A (3)	R404A (3)	R404A (3.7)
START-UP CURRENT (A)			21	27	38	42	50	30
MAX LOAD CURRENT (A)			4.0	5.0	7.0	8.5	10.0	6.7
EVAPORATING TEMP (°C)			- 40 to -10					
AMBIENT TEMP (°C)			0 to 42					
COMPRESSOR (MODEL)			QHD-13K	QHD-16K	QHD-23K	QHD-30K	QHD-36K	THD412F
CONDENSER	STYLE		44	45	45	45	45	55
	FAN MOTOR	DIAMETER (mm)	φ230*2	φ230*2	φ230*2	φ230*3	φ230*3	φ230*4
		AIR FLOW (m³/hr)	680	820	820	820	820	820*4
PIPE (mm)	GAS INLET DIAM		φ12.7 (1/2')					
	LIQUID OUTLET		φ9.53 (3/8')					
OUT DIMENSION	LENGTH (mm)		640	680	790	940	1145	1230
	WIDTH (mm)		485	485	520	520	520	520
	HEIGHT (mm)		295	295	295	295	295	295
	WEIGHT (kg)		33	35	42	51	53	60
REFRIG-ERATION CAPACITY	EVAP TEMP (°C)		REFRIGERATION CAPACITY: W CONDENSING TEMP: 45°C AMBIENT TEMP: 32°C					
	-40		420	500	815	1027	1146	1423
	-35		504	640	930	1148	1270	1828
	-30		600	790	1100	1260	1460	2341
	-25		880	980	1300	1640	1800	2918
	-20		1050	1100	1640	2080	2200	3480
	-15		1130	1280	2050	2500	2680	3990
	-10		1360	1500	2330	2930	3130	4822
WIRING CAPACITY		RATED CURRENT (MA)	10	10	15	20	25	30
		LEAK CURRENT (MA)						

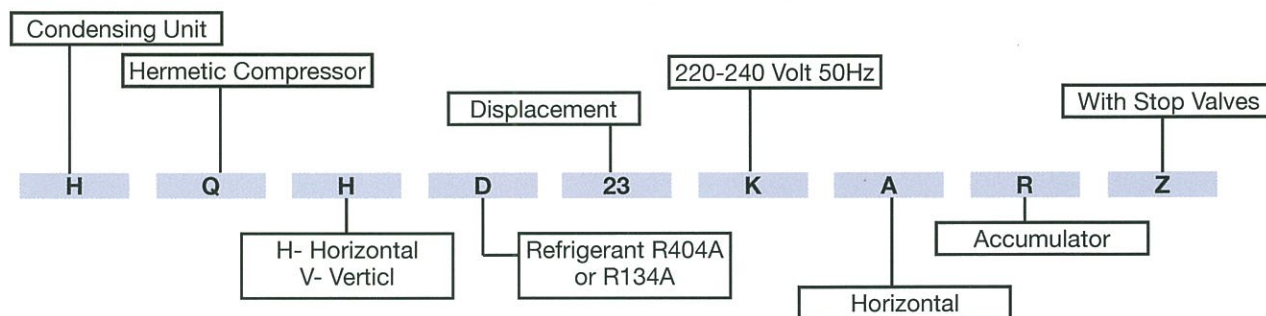
Note:

1. Refrigerant charge must be controlled strictly. The maximum limitation of charging is listed in the table.
2. Diameter of suction and evaporating pipes should be decided by oil circulation and reconfirmation of gas speed.
3. The diameter of pipes must guarantee to be gas speed of 3.8M/s through horizontal pipes and 7.6M/s through vertical ones.
4. The single length should be less than 10M, and height difference should be within 3M.



HQHD (R134A) Series Condensing Units (Polynomial) Med Temp

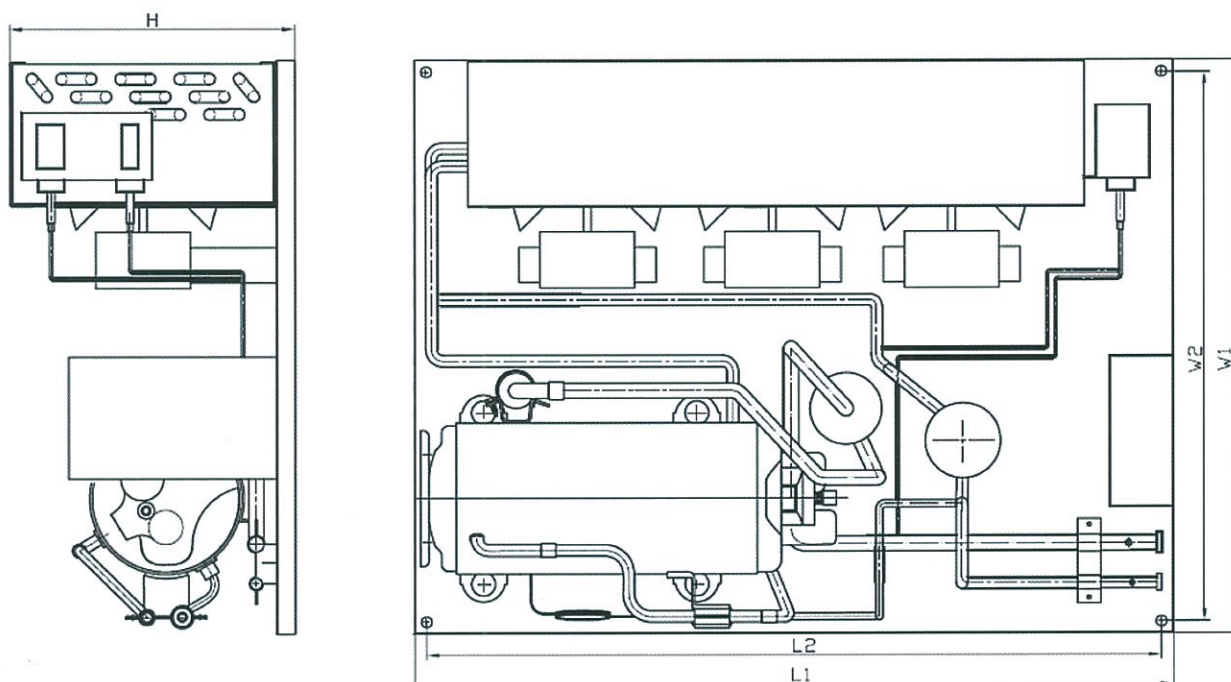
MODEL NO		HQHD-13KAR	HQHD-16KAR	HQHD-23KAR	HQHD-30KAR	HQHD-36KAR
POWER SUPPLY		SINGLE PHASE: 220V - 240V/50Hz				
REFRIGERANT MAX (kg)		R134A (1.2)	R134A (1.5)	R134A (2)	R134A (3)	R134A (3)
START-UP CURRENT (A)		21	25	35	40	40
MAX LOAD CURRENT (A)		4.0	5.0	6.2	7.5	8.0
EVAPORATING TEMP (°C)		-15 to 0				
AMBIENT TEMP (°C)		0 to 42				
COMPRESSOR (MODEL)		QHD-13K	QHD-16K	QHD-23K	QHD-30K	QHD-36K
EVAP TEMP (°C)						
Refrigeration Capapcity (Watts at Condensing Temp of 38°C Ambient 32°C)	-15	669	904	1137	1564	1855
	-10	827	1168	1409	2029	2411
	-5	1017	1435	1727	2492	2961
	0	1233	1763	2105	3062	3638



Condensing Units:

- Using high efficiency roatary compressor and motor, it can save more than 10% in energy running costs
- Operates with R134A and environmentally friendly refrigerant HFCR404A. Evaporating temperature is from 0°C to -40°C. Condeninsing units can work under both medium temperature conditions and low temperature conditions
- The total height of the unit is not more than 295mm, ensuring a more effective volume in the showcase
- Horizontal rotary compressor makes condensing unit more compact
- Working voltage between 220V - 240V
- Compressors are able to work continuously under high temperature conditions. Liquid injection cooling technology reduces compressor temperature. Protective parts enable the unit to be more reliable

Condensing Unit Dimensions



UNIT MODELS	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	H (mm)
HQHD - 13KAR	640	620	485	564	295
HQHD - 16KAR	680	660	485	564	295
HQHD - 23KAR	790	770	520	500	295
HQHD - 30KAR	940	920	520	500	295
HQHD - 36KAR	1145	1115	520	490	295
HQHD - 41MAR	1230	1210	520	500	295



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