

# AIR-COOLED CONDENSING UNITS



**38HDS**



QUALITY SYSTEM



MALAYSIA  
MS ISO 9001  
REG. NO. AR 0200

# From Carrier....The New Practical, And Versatile 38HDS Air-Cooled Condensing Unit.

Carrier introduces yet another innovative range of Slim and elegant designed air-conditioners the 38HDS condensing units. It has the same small foot-print as 38HDT for reduced space requirement. 38HDS series is one of the most versatile, extraordinary and powerful condensing unit which provides energy efficient and quiet operation. It needs minimum maintenance and is very easy to install and service.

## Features:

- All models is housed in the Chassis "1S" or "1SS" cabinet with same small footprint like 38HDT Series for reduced space requirement.
- Powder painted cabinet complies with ASTM B117 500 hours salt-spray test.
- Fully Hermetic reciprocating compressor - engineered for efficient and dependable operation.
- Compressor with built-in thermal overload protector against high current or temperature. High/Low pressure switches and Crankcase heater ensure safety and long-term reliability.
- Built-in Solid-State Anti-Recycle 5 minutes Timer.
- Separate insulated compressor compartment - ensures quiet operation.
- Advanced technology Lanced Sine Wave fin pattern with large L-shape coil ensures high EER performance.
- Standard UL 230V controls.
- Twin propeller fans and Metal fan guard offers quick access and low noise characteristics for quiet operation.
- Blow-thru direct propeller fan for horizontal discharge.
- Aesthetically designed - pleasant and practical.

## SPECIFICATIONS

MODEL		38HDS085	38HDS100	38HDS120
TYPE		AIR-COOLED CONDENSING UNIT		
NOMINAL CAPACITY (kW)*		24.9	29.3	35.2
POWER CONSUMPTION (CDU) (kW)*		9.5	11.3	12.5
OPERATING CURRENT (CDU) (A)*		18.0	23.0	23.0
REFRIGERANT		R-22		
POWER SOURCE (V-Ph-Hz) NOMINAL		400-3-50		
CDU EER		8.90	8.85	9.60
ABS. MIN-MAX VOLTAGE (V)		342 - 462		
COMPRESSOR	TYPE	FULLY HERMETIC RECIPROCATING		
	LRA (A)	96.5	143.0	135.0
	RLA (A)	19.3	21.4	27.6
	RUNNING AMPS (A)*	15.4	20.3	20.4
	POWER SUPPLY	400-3-50		
FAN MOTOR	TYPE	PERMANENT SPLIT CAPACITOR		
	NUMBER	2	2	2
	FLA (A)	2 x 1.75	2 x 1.75	2 x 1.75
	RUNNING AMPS (A)*	2 x 1.28	2 x 1.24	2 x 1.29
	POWER SUPPLY	230-1-50/60		
CONDENSER COIL	ROWS-FINSm	3-591	3-591	3-591
DIMENSIONS	WIDTH, W(mm)	432	432	432
	LENGTH, L(mm)	1130	1130	1130
	HEIGHT, H(mm)	1056	1056	1556
CONNECTIONS	TYPE	SWEAT		
	LIQUID (mm)	12.7	12.7	12.7
	SUCTION (mm)	28.58	28.58	28.58
NET WEIGHT (kg)		156	156	174
EXTERNAL FINISH		ALPINE MIST		
SOUND PRESSURE LEVEL dB(A)**		66	66	63
PROTECTION DEVICES		THERMAL OVERLOAD, CRANKCASE HEATER, HP/LP SWITCHES		

FLA: FULL LOAD AMPS LRA: LOCKED ROTOR AMPS RLA: RATED LOAD AMPS  
 \* DATA RATED TO BS STANDARD AT 35°C(95°F) AMBIENT, 25.7°C(78°F)(80°F/67°F) INDOOR CONDITION  
 \*\* DATA IS MEASURED AT 1m FRONT OF THE UNIT & 1m ABOVE THE GROUND

## GUIDE SPECIFICATIONS

Furnish and install air cooled condensing unit in the location and manner shown in IOM. The unit shall be properly assembled and tested at the factory. It shall be designed for use with refrigerant R-22 and shall be suitable for use with 400-3Ø-50Hz electrical supply.

The condensing unit shall have capacity of.....watts or more, with the temperature of air entering condenser at.....°C db and a saturated suction temperature at.....°C.

The condenser coil shall be of non-ferrous construction such that it has aluminium plate fins with "Lanced Sine Wave" pattern mechanically bonded to seamless copper tubing. The unit shall be furnished with direct driven, propeller type fan arrangement for horizontal discharge. The unit shall have a fan guard build of metal and offers quick access and easy maintenance. The condenser fan system shall be of Blow-Thru Type. The condenser fan motor shall have inherent protection and shall be of the permanently lubricated type.

The compressor shall be the fully-hermetic reciprocating type and shall come equipped with spring isolators and crankcase heater. The controls shall be factory wired and located in a separate enclosure. Safety devices shall consist of high and low pressure switches and compressor overload devices. Unit wiring shall incorporate a positive acting timer to prevent short cycling of compressor if power is interrupted.

Casing shall make unit fully weatherproofed for outdoor installation. The panels shall be manufactured from heavy gauge galvanized steel, phosphatised and finished in baked enamel powder paint.

The dimension of the entire assembly shall not be more than.....high,.....width and.....depth.



40LC SERIES



40RQ SERIES



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