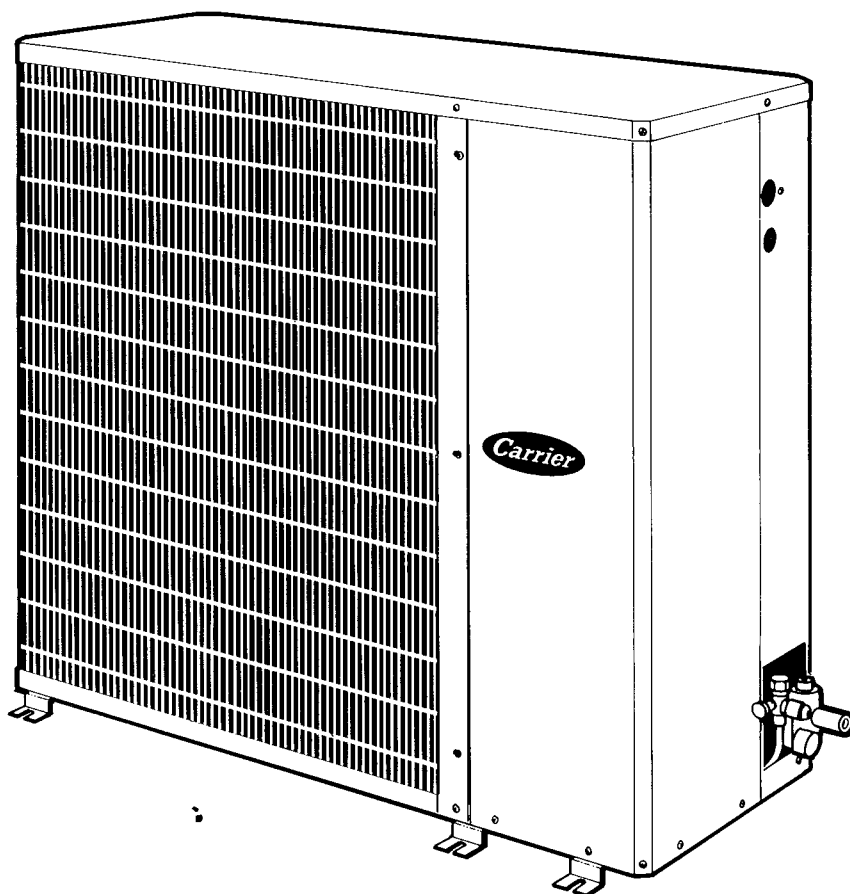




HEATING & COOLING

38HD

Commercial Duty Air Cooled Condensing Units



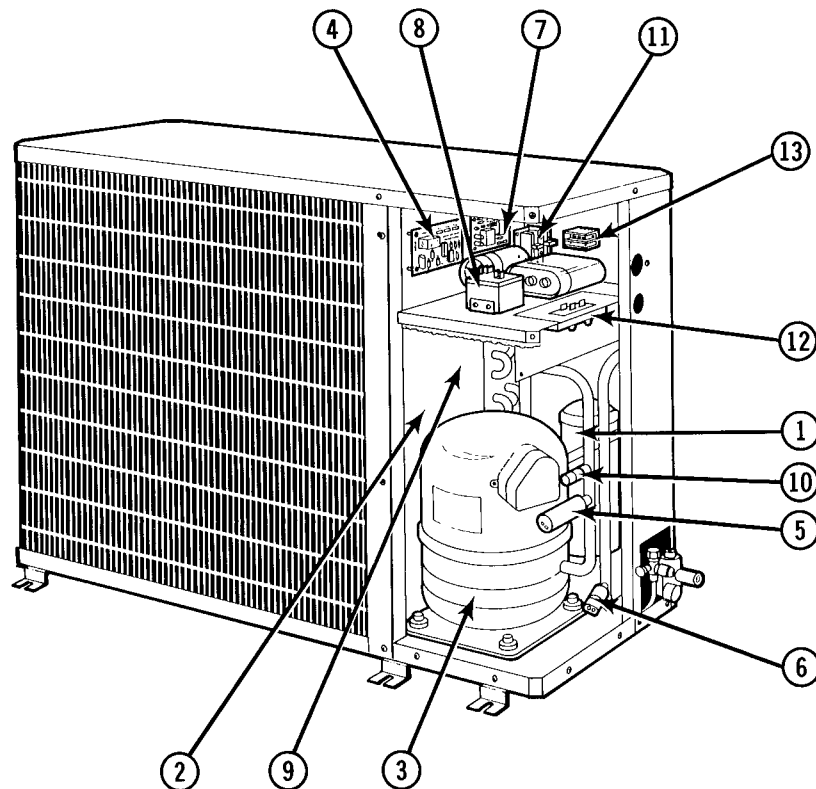
ADVANCE PRODUCT DATA

38HD COMMERCIAL DUTY

The 38HD, a dedicated line of commercial air cooled condensing units are available in 6 sizes from 1-1/2 to 5 tons. The small footprint and the quietness of the 38HD makes it ideal for high density and inner city jobs where space is a premium and proximity to neighbors demands ultra quiet operation.

Match the 38HD with nonducted fan coils on retrofit and add-on jobs or use separately on replacement jobs.

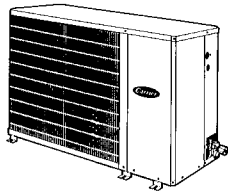
Use on your most demanding commercial jobs, where year round cooling duty is required on multi-story projects with high vertical rises and extended piping.



- ① **Accumulator** achieves high reliability under demanding Commercial Duty and safeguards the compressor against severe stress or loss of lubrication, lengthening the life of the unit.
- ② **Acoustic Lining** for compressor compartment ensures quiet operation.
- ③ **Crankcase Heater** prevents refrigerant dilution of oil.
- ④ **Time Guard** prevents compressor from restarting for at least 5 minutes after shutdown by t'stat. Prevents short cycling caused by t'stat jiggling.
- ⑤ **High-Pressure Switch** protects the compressor should abnormally high discharge pressure occur.
- ⑥ **Low-Pressure Switch** protects compressor when abnormally low suction pressure occur.

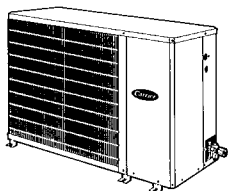
- ⑦ **Lock Out** prevents unit from running if a safety device is activated.
- ⑧ **Start Capacitor And Relay** assure dependable start up under demanding low voltage conditions
- ⑨ **Isolated Compressor/Control Area** behind single access panel, allows unit to be run checked without loss of head pressure control.
- ⑩ **Discharge And Suction Pressure Gauge Ports** allow the serviceman to monitor the exact operating conditions.
- ⑪ **3-Pole Contactor** a safety feature to prevent injury to the service people.
- ⑫ **Low Voltage Terminal Block**
- ⑬ **High Voltage Terminal Block**

38HD PRELIMINARY MATCHED RATINGS



Single Phase

38HD	018		024		030*		036		048		060	
MODELS	CAP.	SEER	CAP.	SEER	CAP.	SEER	CAP.	SEER	CAP.	SEER	CAP.	SEER
40QY	18,000	9.5	23,500	9.5	—	—	—	—	—	—	—	—
42QN	NA	—	23,000	9.7	NA	—	35,400	9.9	47,300	9.8	NA	—
40QK	18,000	9.8	23,800	10.1	30,400	10.5	34,300	9.7	48,100	10.7	—	—
40HD	—	—	23,800	9.5	29,400	9.6	36,100	9.5	49,500	9.9	61,500	9.7



Three Phase

38HD	036		048		060	
MODELS	CAP.	EER	CAP.	EER	CAP.	EER
42QN	35,400	9.6	47,300	9.5	NA	—
40QK	35,500	10.0	48,100	10.1	—	—
40HD	36,100	9.3	49,000	9.7	61,500	9.0

*Size 30 ratings are with size 036 fan coil.

NA = Not Available at this time.

NOTES: 1 Above data is preliminary and subject to change

2 Capacity is in BTU/h

38HD PRELIMINARY SPECIFICATIONS

OUTDOOR UNIT		38HD018	38HD024	38HD030	38HD036	38HD048	38HD060
POWER SUPPLY		1 ϕ 208/230-60	1 ϕ 208/230-60	1 ϕ 208/230-60	1 ϕ 3 ϕ 208/230-60	1 ϕ 3 ϕ 208/230-60	1 ϕ 3 ϕ 208/230-60
VOLTAGE RANGE		187-254					
MAX FUSE		15	20	25	30 20	40 30	60 40
MCA		11.1	13.6	17.6	21.8 13.7	27.3 20.5	39.6 25.7
FAN MOTOR	FLA	.60		.70	1.2		
COMPRESSOR	RLA	8.4	10.4	13.5	16.5 10.0	20.9 15.4	30.7 23.6
	FLA	52	60	65	82 67.5	127.0 98.5	135 105
DIMENSIONS	W (in)	36-7/8			44-5/8		
	D (in)	14-1/2			17-1/8		
	H (in)	24-0			36-0		
WEIGHT	(lb)	155	160	175	240 226	244 235	244 235
SOUND RATINGS BELS		6.8			7.0		7.2

INDOOR UNIT		40QY018	40QY024
POWER SUPPLY		208/230-1-60	
VOLTAGE RANGE		187-254	
OPTIONAL HEATER		2.0 kw	
AIR FLOW	HI CFM	540	570
DIMENSIONS	W (in)	48	
	D (in)	8-5/8	
	H (in)	14-1/8	
WEIGHT	(lb)	59	

INDOOR UNIT		42QN018	42QN024	42QN036	42QN048	42QN060
POWER SUPPLY		208/230-1-60				
VOLTAGE RANGE		187-254				
OPTIONAL HEATER			2.5 kw	3.0 kw	3.5 kw	
AIRFLOW	HI CFM		700	900	1200	
DIMENSIONS	W (in)		50	57-7/8	65-3/4	
	D (in)		23-5/8			
	H (in)		9-7/8			
WEIGHT	(lb)		73	95	119	

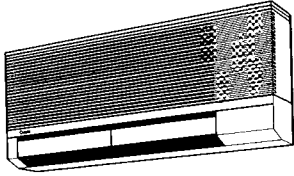
INDOOR UNIT		40QK018	40QK024	40QK036	40QK048
POWER SUPPLY		208/230-1-60			
VOLTAGE RANGE		187-254			
OPTIONAL HEATER		2.7 kw	2.7 kw	3.6 kw	5.4 kw
AIR FLOW	HI CFM	560	650	975	1300
DIMENSIONS	W (in)	22-3/8			
	D (in)	22-3/8		46-1/16	
	H (in)	11-5/8			
WEIGHT	(lb)	48	59	95	115

INDOOR UNIT		40HD024	40HD036	40HD048	40HD060
POWER SUPPLY		208/230-1-60			
VOLTAGE RANGE		187-254			
OPTIONAL HEATER		2.8 kw	4.0 kw	5.5 kw	6.0 kw
AIR FLOW	HI CFM	800	1200	1600	2000
DIMENSIONS	W (in)	46	59		56-5/8
	D (in)	25-1/2			37-1/8
	H (in)	14-1/8			23-1/8
WEIGHT	(lb)	80	105	125	140

SYSTEM SIZE		018	024	030	036	048	060
REFRIGERANT CONTROL		Accurater					
REMOTE CONTROLLER		Standard Honeywell Type, Optional Programmable Electronic Thermostat					
REFRIGERANT PIPING		Not Supplied (Optional Parts)					
PIPE SIZE	SUCTION	5/8			3/4		1-1/8
LIQUID		3/8					
CONNECTION METHOD:		Flare & Sweat					
INDOOR							
OUTDOOR		Sweat					

38HD FAN COIL LINE

40QY HI-WALL



1-1/2 AND 2 TONS

Use on simple add-on & retrofit projects where wall space is available.

- Lowest cost nonducted system
- Electric heat available
- Auto air sweep standard

42QN CEILING SUSPENDED

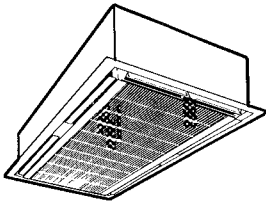


1-1/2, 2, 3, 4, AND 5 TONS

Use on your office and shop retrofit work where wall space is not available.

- Easiest system to retrofit on larger tonnage jobs
- Installs conveniently below ceiling line
- Auto air sweep standard
- Electric heat available
- Optional ventilation air kit
- Optional economizer

40QK CASSETTE

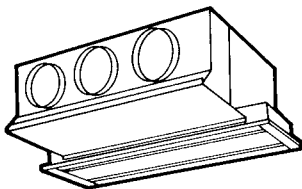


1-1/2, 2, 3, AND 4 TONS

Use on retrofit and modernization projects with hung ceilings.

- Fits standard 2 x 4 foot hung ceiling grid
- Installs like a fluorescent light fixture
- Requires only 12" high ceiling plenum
- Built-in condensate pump
- Can condition adjacent room using feeder duct
- Exclusive power ventilation kit
- Electric heat available

40HD SATELLITE



2, 3, 4, AND 5 TONS

Most sophisticated commercial nonducted fan coil. Use where the ultimate in air distribution is required.

- Installs in the ceiling plenum
- Optional discharge adapter kit for multiple 8" round flex duct
- Powers multiple Moduline boot diffusers
- Rear return standard
- Accessory return grill for 2 x 4 hung ceiling with boot connectors
- Built-in condensate pump
- Optional economizer accessory
- Optional electric heat accessory
- Optional hot water/steam coil accessory

38HD ADVANTAGES AND APPLICATION DATA

Compact Size — 38HD is the smallest in the industry, even the 17" wide 5 ton unit will fit in any service truck and pass thru any door.

Install them:

- On roof or grade level
- On balcony or parapet
- Rack mounted on wall
- Under a deck
- Stacked to get 10 tons out of a 5 square foot footprint

Blow Thru Design — With the blow thru design, inspect and clean operations are a snap. The coil loads from the inside out. All that is needed to clean it is a pressure hose from the outside. No need for fin combs or removing the grill.

Operating Range

- 35° to 125°F
- -20°F with head pressure control

Clearances

38HD is normally installed with coil side (air discharge side) installed against the building. Required clearances are:

- 6" minimum from coil side to wall. Having coil side 6" from wall provides maximum coil protection against vandals and the elements.
- 8" minimum clearance required on fan intake (front) side.
- 24" minimum on service compartment end.

38HD is a good neighbor, with low velocity air discharge quietly directed against the building, plants and neighbors are never disturbed.

Refrigerant Line Lengths

- 60 ft elevation differential between indoor and outdoor unit.
- Up to 200 ft equivalent line length (extended piping).
- Additional charge required for piping runs longer than 25 ft.

