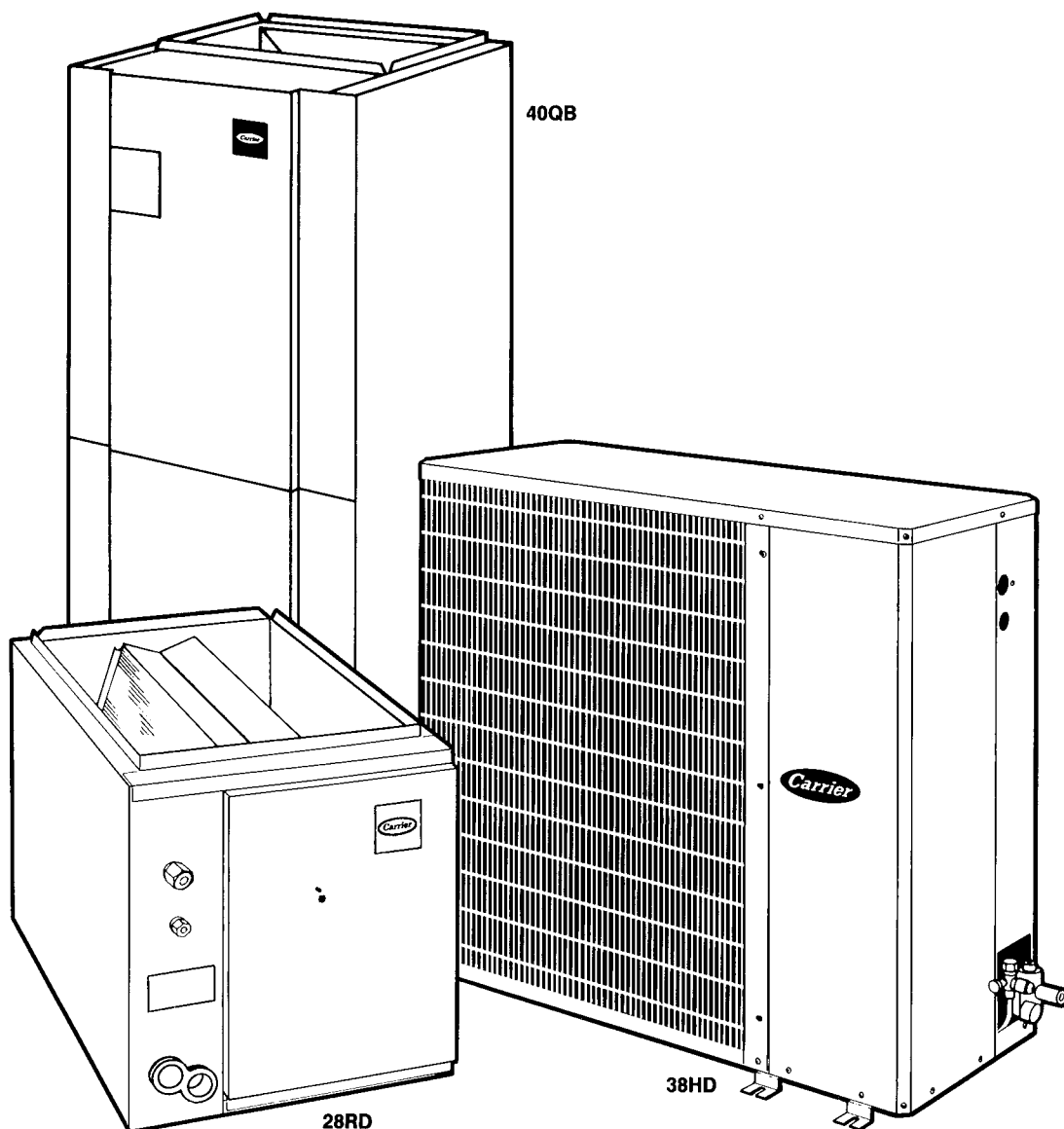




HEATING & COOLING

38HD

OLYMPIA SERIES 10.0 SEER 1 1/2 TO 5 TONS AIR COOLED CONDENSING UNITS



ADVANCE PRODUCT DATA 38HD COMBINATION RATINGS

38HD OLYMPIA SERIES — THE DIFFERENCE

Unmatched application flexibility and customer satisfaction.

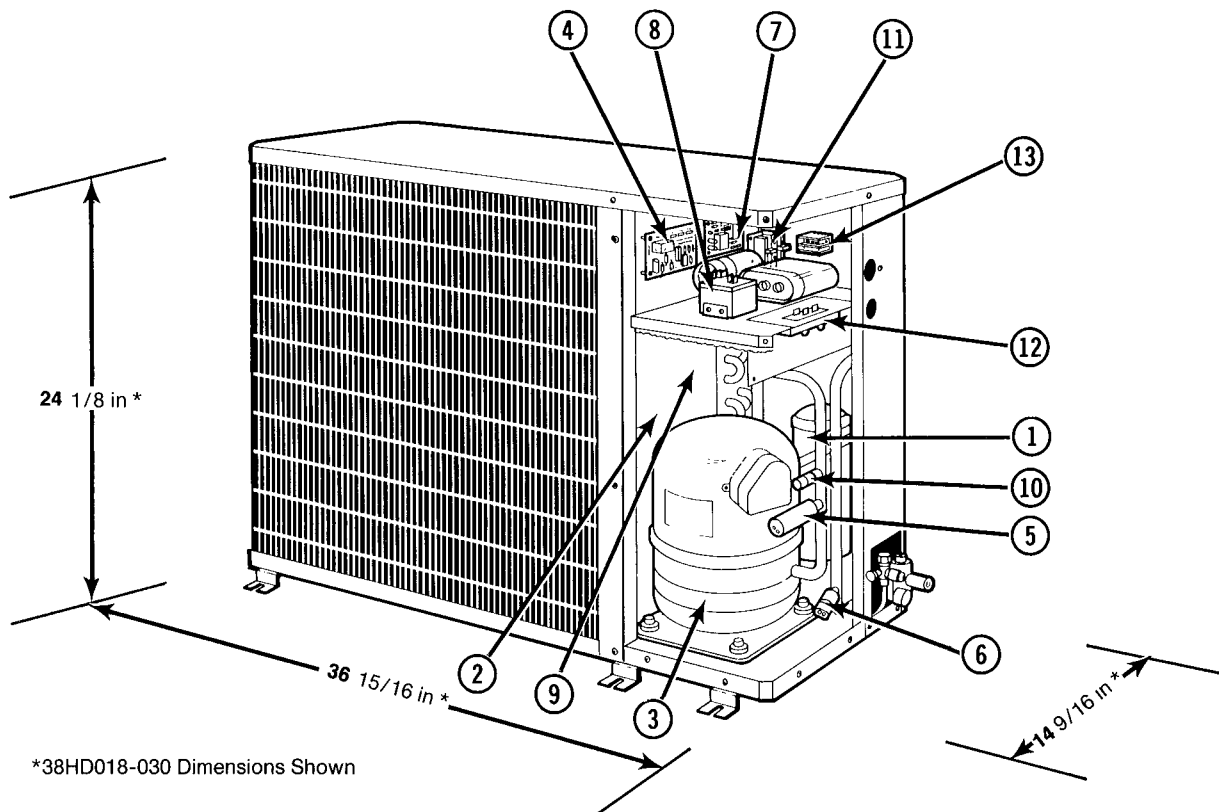
The trendsetting 38HD Olympia Series is designed by Carrier Corporation's Commercial Division to be the quietest, most compact, high-performance line of condensing units in the world.

An exclusive Carrier technological breakthrough in aeroacoustics and heat transfer reduces 38HD product size to a fraction of current industry standards. This breakthrough also allows the 38HD to set new standards for quiet operation with ratings down to an ultra low 6.8 Bels.

The combination of compactness and quietness provide a unique opportunity for the Carrier dealer/contractor to satisfy their most discerning customers. The 38HD offers unobtrusive air conditioning that can be totally integrated with structure and surroundings.

It is the product of choice where space is at a premium and proximity to neighbors demands ultra quiet operation.

The 38HD is the ultimate product for those who demand the best. And it is exclusively offered by Carrier Corporation.



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|---|--|
| <p>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.</p> <p>② Acoustic Lining for compressor compartment ensures quiet operation.</p> <p>③ Crankcase Heater prevents refrigerant dilution of oil.</p> <p>④ Time Guard II® circuit prevents compressor from retarting for at least 5 minutes after shutdown by thermostat. Prevents short cycling caused by thermostat jiggling. (Optional)</p> <p>⑤ High-Pressure Switch protects the compressor should abnormally high discharge pressure occur.</p> <p>⑥ Low-Pressure Switch protects compressor when abnormally low suction pressure occurs.</p> | <p>⑦ Lock Out prevents unit from running if a safety device is activated.</p> <p>⑧ Start Capacitor And Relay assure dependable start up under demanding low voltage conditions.</p> <p>⑨ Isolated Compressor/Control Area behind single access panel, allows unit to be run checked without loss of condenser air flow.</p> <p>⑩ Discharge And Suction Pressure Gauge Ports allow the serviceman to monitor the exact operating conditions.</p> <p>⑪ 3-Pole Contactor is a safety feature to prevent injury to the service people.</p> <p>⑫ Low Voltage Terminal Block</p> <p>⑬ High Voltage Terminal Block</p> |
|---|--|

38HD/28RD,RN 10.0 SEER COMBINATION RATINGS

38HD/28RD,RN SINGLE PHASE MATCHED SEER RATINGS (Btu/h)												
38HD 28RD,RN	018 024		024 030		030 043		036 043		048 049		060 061	
MODELS	CAP	SEER	CAP	SEER	CAP	SEER	CAP	SEER	CAP	SEER	CAP	SEER
WITHOUT LLS					30,500	10.20	38,000	10.95	49,000	10.25		
WITH LLS	20,000	10.10	24,400	10.05	30,500	10.50	38,000	11.40	49,000	10.70	59,000	10.15

38HD/28RD,RN THREE PHASE MATCHED EER RATINGS (Btu/h)									
38HD 28RD,RN				036 043		048 049		060 061	
MODELS				CAP	EER	CAP	EER	CAP	EER
WITHOUT LLS				38,000	10.25	49,000	9.70	59,000	9.25

38HD/40QB,QH 10.0 SEER COMBINATION RATINGS

38HD/40QB,QH SINGLE PHASE MATCHED SEER RATINGS (Btu/h)										
38HD 40QB,QH			030 043		036 043		048 049		060 063	
MODELS			CAP	SEER	CAP	SEER	CAP	SEER	CAP	SEER
WITHOUT LLS					38,000	10.10				
WITH LLS			30,400	10.0	38,000	10.50	48,000	10.00	60,000	10.00

38HD/40QB,QH THREE PHASE MATCHED EER RATINGS (Btu/h)									
38HD 40QB,QH				036 043		048 049		060 063	
MODELS				CAP	EER	CAP	EER	CAP	EER
WITHOUT LLS				38,000	9.70	48,000	9.00	60,000	9.10

EER—Energy Efficiency Ratio SEER—Seasonal Energy Efficiency Ratio
LLS—Liquid Line Solenoid

38HD SOUND RATINGS (Bels)

OUTDOOR UNIT	38HD018	38HD024	38HD030	38HD036	38HD048	38HD060
	6.8	6.8	6.8	7.2	7.2	7.4



38HD ACCESSORIES

Low Ambient Controller
SEER Enhancement Kit
Time Guard II® Control Circuit
Stacking Kit
18-in. Stand
8-in. Stand
Wind Baffle

38HD SPECIFICATIONS

OUTDOOR UNIT		38HD018	38HD024	38HD030	38HD036	38HD048	38HD060
POWER SUPPLY	Phase	1	1	1	1	1	1
	Volts-Hz	208/230-60	208/230-60	208/230-60	208/230-60	208/230-60	208/230-60
VOLTAGE RANGE		187-254					
MAX FUSE	(Amps)	20	25	30	35	20	50
MCA		12	15	18	22	15	33
FAN MOTOR	FLA	.70		70	1.45		
COMPRESSOR	RLA	92	11.2	13.8	16.5	10.0	25.0
	LRA	52	60	65	82	67.5	127.0
DIMENSIONS	W (in)	36-15/16			44-9/16		
	D (in)	14-9/16			17-1/16		
	H (in)	24-1/8			36-1/8		
WEIGHT	(lb)	148	160	171	240	226	244
PIPING CONN. (in)	LIQUID	3/8	3/8	3/8	3/8	3/8	3/8
	SUCTION	5/8	5/8	3/4	3/4	3/4	7/8

28RD,RN SPECIFICATIONS

OUTDOOR UNIT		38HD018	38HD024	38HD030	38HD036	38HD048	38HD060
FURNACE COIL		28RD,RN024	28RD,RN030	28RD,RN043	28RD,RN043	28RD,RN049	28RD,RN061
FACTORY INSTALLED ACCURATER® PISTON	(Size)	61	70	78	78	86	93
REQUIRED 38HD/28RD,RN ACCURATER PISTON	(Size)	59	61	70	73	86	88
NOMINAL CFM		600	800	1000	1200	1600	2000
WET COIL PD	(in. wg)	.140	.184	.140	.160	.210	.170
EVAPORATOR COIL	FACE AREA (sq. ft.)	2.6	3.6	ENHANCED	ENHANCED	ENHANCED	ENHANCED
	FIN/INCH	14	16	12	12	13	16
	ROWS	3	3	3	3	3	3

40QB,QH SPECIFICATIONS

OUTDOOR UNIT		38HD030	38HD036	38HD048	38HD060
FAN COIL		40QB,QH043	40QB,QH043	40QB,QH049	40QB,QH063
FACTORY INSTALLED ACCURATER® PISTON	(Size)	76	76	82	93
REQUIRED 38HD/40QB,QH ACCURATER PISTON	(Size)	67	73	88	90
AIR DISCHARGE		UPFLOW-HORIZONTAL-DOWNFLOW			
RPM	3-Speed	1025/925/825	1025/925/825	1025/925/825	—
	2-Speed	—	—	—	900/825
NOMINAL CFM		1000	1200	1600	2000
AVAILABLE EXTERNAL STATIC PRESSURE* (in. wg)		.83/.76/.67	.64/.58/.44	.63/.50/—	.45/—
EVAPORATOR COIL	FACE AREA (sq. ft.)	ENHANCED	ENHANCED	ENHANCED	ENHANCED
	FIN/INCH	4.4	4.4	5.0	5.0
	ROWS	13	13	13	13
		3	3	3	3
BLOWER FAN SIZE	(in.)	10x9	10x9	10x9	11x9
PSC MOTOR HP		1/3	1/3	1/2	3/4
STD FILTER	(in.)	1x20x21	1x20x25	1x20x25	1x20x25

*Includes wet coil pressure drop and filter pressure drop

FLA — Full Load Amps
LRA — Locked Rotor Amps

MCA — Minimum Circuit Amps
PD — Pressure Drop

PSC — Permanent Split Capacitor Motor
RLA — Rated Load Amps

38HD OLYMPIA SERIES — UNMATCHED APPLICATION FLEXIBILITY

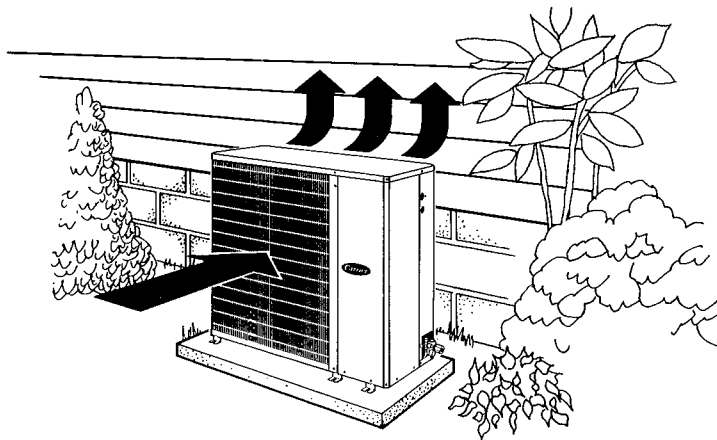
THE GOOD NEIGHBOR PRODUCT

The soft flow, rear discharge air flow configuration, and the ultra low sound performance allow the 38HD to be installed with the coil side (air discharge side) against the exterior wall of the conditioned structure.

Required clearances are:

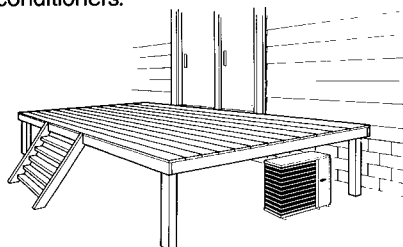
- 6" minimum clearance from coil (rear) side to wall. Having coil side 6" from wall provides maximum coil protection against vandals and the elements.
- 8" minimum required on fan intake (front) side.
- 24" minimum on service access side.

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



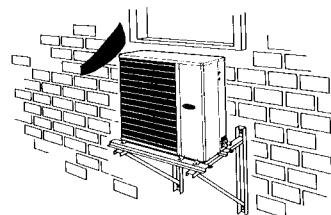
INSTALL UNDER A DECK

Only you can satisfy those discriminating customers who do not want to *either* see or hear their air conditioners.



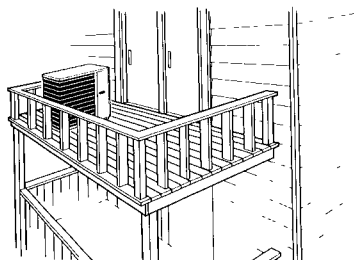
RACK MOUNT ON A REAR OR SIDE WALL

On those jobs with no room at all. Maximum exterior projection is only 20" to 23" including the required 6" rear clearance.



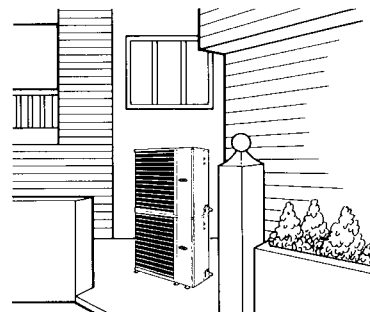
INSTALL ON A BALCONY

Where there is neither roof nor grade level access.



STACK THE 38HD'S TO DOUBLE CAPACITY

Industry exclusive. Only you can set up to 10 tons of air conditioning on a footprint only 5 square foot by stacking two 38HD units on top of each other using our accessory stacking kit.



The remarkable 38HD Condensing Units are designed to be the most compact, quietest, high performance condensing units in the world, providing the Carrier Dealer/Contractor with unmatched exclusive opportunities for customer satisfaction.

We're not satisfied until you are...



**UNITED
TECHNOLOGIES
CARRIER**

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

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7-89

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