

Rapid Freeze High Ambient Air Cooled

60 hz Condensing Units - 60 Hz

COOL SOLUTIONS SINCE 1912

HOWE Proven. Best Choice.

Howe's high ambient condensing units are sized and configured to match Howe Rapid Freeze ice flakers. These units are designed for unexcelled quality, reliability, and long life. They are durable, energy efficient and they provide a high degree of flexibility to a wide diversity of industrial applications.

STANDARD FEATURES

- High efficiency Copeland semi-hermetic compressors with POE Oil.
- Electrical controls in weatherproof control box with compressor contactor and fused control circuit.
- Head pressure control system
- Suction & liquid vibration eliminators.
- Liquid line filter-drier and sight glass.

SPECIAL FEATURES

- Pump down toggle switch
- Suction Accumulator
- Oil Separator with oil return line.
- Separate high pressure, low pressure control switches

Oversized condensing units rated for 110°F ambient conditions

OPTIONAL FEATURES

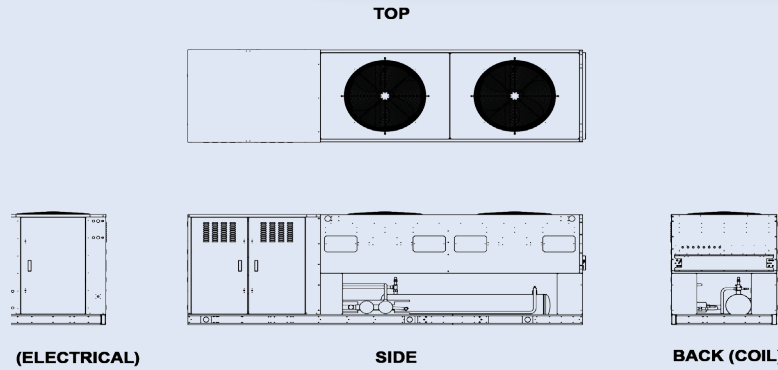
- Coated condenser coils for harsh environments.



HA77-A-R404A-1 shown.

APPLICATIONS

- Produce Harvesters
- Produce Wholesalers
- Produce Markets
- Industrial Bakeries
- Seafood Processors
- Seafood Distributors
- Meat Processors
- Sausage Processors
- Poultry Processors
- Concrete Cooling
- Amusement Parks
- Industrial Catering



CONDENSING UNIT

MODEL	DIMENSIONS IN			CM			CONNECTION SIZES		REQUIRED RUN Line Sizes (ODS)		REC CAP LBS	SHIPPING WEIGHT	
	H	W	L	H	W	L	SUCTION	LIQUID	SUCTION	LIQUID		LBS	KG
HA77-A-R4**A-*	55	44-3/4	167-3/8	139.7	113.7	425.1	2 1/8	1-1/8	2 1/8	7/8	157	2600	1182
HA102-A-R4**A-*	55	86-3/4	167-3/8	139.7	113.7	425.1	(2)2 1/8	(2)1-1/8	2 5/8	1 1/8	103	4120	1872

*= 1 for 230/3/60, 3 for 460/3/60 **= 04 for R404A, 48 for R448A

ELECTRICAL

VOLTAGE	MODEL	COMPRESSOR			CONDENSER FAN MOTORS			UNIT AMPS	MCA	MOP
		MF6.	RLA	LRA	QTY	WATT	FLA (EACH)			
208-230/3/60	HA77-A-R4**A-1	B	120.1	700	2	3700	6.6	133.3	163.3	250
	HA102-A-R404A-1	C	(2) 80.7	(2) 450	4	7400	6.6	187.8	208.0	250
	HA102-A-R448A-1	C	(2) 64.3	(2) 374	4	7400	6.6	155.0	171.1	225
460/3/60	HA77-A-R4**A-3	B	54.3	350	2	3700	3.1	60.5	74.1	125
	HA102-A-R4**A-3	C	(2) 32.1	(2) 187	4	7400	3.1	76.6	84.6	110
575/3/60	HA77-A-R4**A-4	B	43.6	350	2	3700	2.5	48.6	59.9	100
	HA101-A-R4**A-4	C	(2) 29.1	(2) 135	4	7400	3.1	76.6	84.6	110

B= Bitzer, C= Copeland

¹ = Receiver capacity is based on R404A refrigerant. Multiply R404A value by the appropriate value below for alternate refrigerants:

R407A	R407C	R448A	R449A	R507	R22
1.10	1.10	1.05	1.05	1.0	1.15