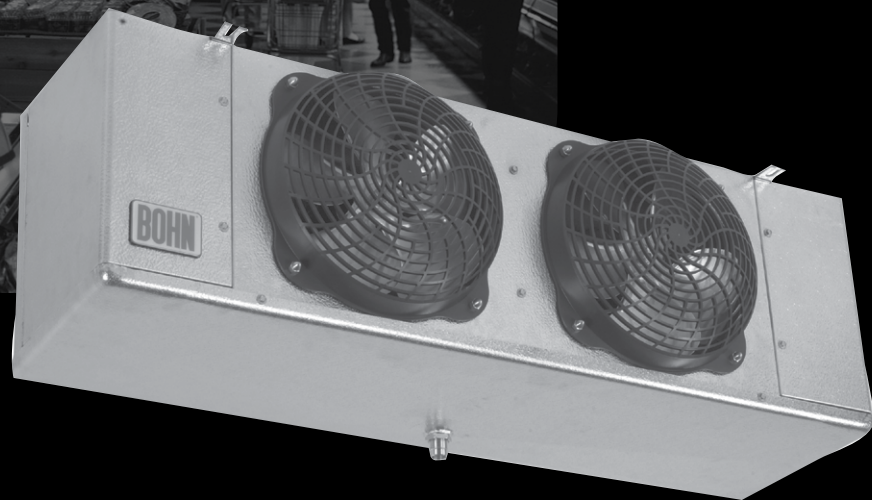


LOW PROFILE UNIT COOLERS

Technical Guide

Models ADT | Air Defrost • LET/LLE | Electric Defrost • HGT | Hot Gas Defrost



Performance Data

Model ADT Air Defrost | 60 Hz

Model	Capacity		Fan Data		
	10°F TD 25°F SST	6°C TD -4°C SST	No.	CFM	m³H
	BTUH	Watts			
ADT040	4,000	1,170	1	730	1,240
ADT052	5,200	1,520	1	700	1,189
ADT065	6,500	1,900	1	650	1,104
ADT070	7,000	2,050	2	1,460	2,481
ADT090	9,000	2,640	2	1,400	2,379
ADT104	10,400	3,050	2	1,400	2,379
ADT120	12,000	3,500	2	1,300	2,209
ADT130	13,000	3,810	2	1,300	2,209
ADT140	14,000	4,100	3	2,100	3,568
ADT156	15,600	4,570	3	2,100	3,568
ADT180	18,000	5,270	3	1,950	3,313
ADT208	20,800	6,100	4	2,800	4,758
ADT260	26,000	7,620	5	3,250	5,522
ADT312	31,200	9,140	6	3,900	6,627
ADT370	37,000	10,840	6	3,900	6,627

Model ADT Air Defrost | 50 Hz †

Model	Capacity		Fan Data		
	10°F TD 25°F SST	6°C TD -4°C SST	No.	CFM	m³H
	BTUH	Watts			
ADT040	3,800	1,112	1	670	1,117
ADT052	4,940	1,445	1	630	1,070
ADT065	6,175	1,807	1	586	995
ADT070	6,650	1,946	2	1,315	2,234
ADT090	8,550	2,502	2	1,260	2,142
ADT104	9,880	2,891	2	1,260	2,142
ADT120	11,400	3,335	2	1,170	1,989
ADT130	12,350	3,613	2	1,170	1,989
ADT140	13,300	3,891	3	1,891	3,213
ADT156	14,820	4,336	3	1,891	3,213
ADT180	17,100	5,003	3	1,756	2,984
ADT208	19,760	5,781	4	2,521	4,284
ADT260	24,700	7,226	5	2,927	4,973
ADT312	29,640	8,672	6	3,512	5,967
ADT370	35,150	10,284	6	3,512	5,967

† For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

Walk-in Evaporators – Low Profiles (Coolers and Freezers)

Nomenclature Example:

ADT	040	A	K
Model Family	Capacity	Electric Code	Vintage Revision
	x 100 = BTUH (10°F TD)	A = 115/1/60 B = 208-230/1/60 M = 460/1/60	

FAMILY

ADT

High and/or Medium Temperature Low Profile Walk-in Unit Coolers with Air Defrost (6 FPI)



ALSO CLASSIFIED AS A COMPONENT IN ACCORDANCE WITH NSF 7-1999

- Design features easy front access to both electrical and refrigeration components
- Textured aluminum cabinets
- Design optimizes space for easier installation and servicing
- Beacon II™ compatible
- Liquid-line solenoid wiring harness comes standard on unit
- Drain pan features large drain line fitting (3/4" MPT) for better drainage, located on back of the unit
- Schrader valve on suction header
- UL-listed, UL-listed for Canada, and meets NSF standards




PSC & EC Motors Available

NOTE:

- PSC motors standard on 460V models (no adder necessary)
- All 50Hz models require PSC motors

For ordering information see page 25.

Model	List Price (\$US)	Voltage	Net Dimensions (in.)			Approx. Ship Wt. (lbs.)
			Height	Depth	Length	
ADT040AK*	1,148	115/1/60	15	15	29.5	36
ADT040BK	1,240	208-230/1/60	15	15	29.5	36
ADT040MK	1,390	460/1/60	15	15	29.5	36
ADT052AK*	1,234	115/1/60	15	15	29.5	36
ADT052BK	1,253	208-230/1/60	15	15	29.5	36
ADT052MK	1,403	460/1/60	15	15	29.5	36
ADT065AK*	1,444	115/1/60	15	15	29.5	40
ADT065BK	1,555	208-230/1/60	15	15	29.5	40
ADT065MK	1,705	460/1/60	15	15	29.5	40
ADT070AK*	1,616	115/1/60	15	15	45.5	52
ADT070BK	1,744	208-230/1/60	15	15	45.5	52
ADT070MK	2,045	460/1/60	15	15	45.5	52
ADT090AK*	1,908	115/1/60	15	15	45.5	56
ADT090BK	1,938	208-230/1/60	15	15	45.5	56
ADT090MK	2,240	460/1/60	15	15	45.5	56
ADT104AK*	2,058	115/1/60	15	15	45.5	58
ADT104BK	2,090	208-230/1/60	15	15	45.5	58
ADT104MK	2,390	460/1/60	15	15	45.5	58
ADT120AK*	2,224	115/1/60	15	15	45.5	60
ADT120BK	2,255	208-230/1/60	15	15	45.5	60
ADT120MK	2,554	460/1/60	15	15	45.5	60
ADT130AK*	2,401	115/1/60	15	15	45.5	62
ADT130BK	2,435	208-230/1/60	15	15	45.5	62
ADT130MK	2,737	460/1/60	15	15	45.5	62
ADT140AK*	2,630	115/1/60	15	15	61.5	72
ADT140BK	2,667	208-230/1/60	15	15	61.5	72
ADT140MK	3,117	460/1/60	15	15	61.5	72
ADT156AK*	2,926	115/1/60	15	15	61.5	76
ADT156BK	2,973	208-230/1/60	15	15	61.5	76
ADT156MK	3,424	460/1/60	15	15	61.5	76
ADT180AK*	3,382	115/1/60	15	15	61.5	82
ADT180BK	3,428	208-230/1/60	15	15	61.5	82
ADT180MK	3,878	460/1/60	15	15	61.5	82
ADT208AK*	3,777	115/1/60	15	15	77.5	94
ADT208BK	4,077	208-230/1/60	15	15	77.5	94
ADT208MK	4,679	460/1/60	15	15	77.5	94
ADT260AK*	4,694	115/1/60	15	15	93.5	204
ADT260BK	5,069	208-230/1/60	15	15	93.5	204
ADT260MK	5,818	460/1/60	15	15	93.5	204
ADT312AK*	5,331	115/1/60	15	15	109.5	234
ADT312BK	5,756	208-230/1/60	15	15	109.5	234
ADT312MK	6,658	460/1/60	15	15	109.5	234
ADT370AK*	6,237	115/1/60	15	15	109.5	234
ADT370BK	6,628	208-230/1/60	15	15	109.5	234
ADT370MK	7,531	460/1/60	15	15	109.5	234

* Model numbers are normally in stock.

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We have made a commitment to customer needs, innovation and environmental stewardship and have dedicated ourselves to delivering energy-efficient choices. PSC and EC motors will reduce costs, improve the bottom line and enhance equipment performance and service life.

Choose the most energy-efficient motor available for evaporators.



The EC motor is an Energy Solutions® option on new Bohn Low Profile evaporators. Available on all new equipment or as an easy-to-install, drop-in replacement aftermarket part from InterLink™ Commercial Refrigeration Parts. Because they're a drop-in replacement for existing shaded pole and PSC motors, installation is quick and easy. It's a **high impact, quick payback solution** for reducing costs and achieving green initiatives **without replacing the entire system.**

EC motors by InterLink are **up to 75% efficient** - that's a **51-59% increase over shaded pole motors** and a **30-35% increase over permanent-split capacitor (PSC) motors.** With all of this added efficiency, you can count on more **energy savings and lower operational costs** while taking a step in the right direction toward conserving our planet's resources.

To learn more about EC motors, visit www.interlinkparts.com/ec.

Nomenclature

ADT	120	A	K
Model Series	Capacity	Electrical Code	Design Revision
<p>ADT = Air defrost</p> <p>LET = Electric defrost, 6 FPI</p> <p>LLE = Electric defrost, 4 FPI</p> <p>HGT = Hot gas defrost</p>	<p># x 100 = BTUH</p>	<p>A = 115/1/60</p> <p>B = 208-230/1/60</p> <p>C = 208-230/3/60</p> <p>M = 460/1/60</p> <p>AH = 115/1/60 (PSC)</p> <p>BH = 208-230/1/60 (PSC)</p> <p>AE = 115/1/60 (EC)</p> <p>BE = 208-230/1/60 (EC)</p> <p>CE = 208-230/3/60 (EC)</p>	

Features & Benefits

Cabinet

- Minimal height of the low profile series makes it ideal for low ceiling coolers
- Cabinet design features front access panels on each side for easy access to electrical and refrigeration components
- All electrical components factory wired to terminal board and identified, making it easy to field wire the unit
- Sweat connections to reduce potential for leaks
- Internal panels are isolated for quiet operation
- Liquid line solenoid wire harness is factory-installed for quick installation
- Pre-drilled holes on the back of the unit for room thermostat

Coil

- Internally enhanced tubing and fin design for higher efficiency
- Coil heater slots have been enlarged for easier installation and replacement
- Reduced heater wattages
- Hot gas loop on bottom of coil for easier access is standard for hot gas defrost models
- Fixed defrost termination for electric, adjustable defrost termination for hot gas

Drain Pan

- Large diameter drain hole (3/4" ID) is located on the back of the unit
- Extended drain pan heaters for more uniform defrost throughout the drain pan and additional heat in end compartments
- On 4-6 fan models, drain pan has a lanyard for easy and safe access

Motors

- Motors plug into wiring harness for easier servicing
- EC motors available factory-installed or as a drop-in replacement through InterLink™ Commercial Refrigeration Parts in 115/1/60, 208-230/1/60 and 208-230/3/60 unit voltages
- PSC and PSC (Totally Enclosed) motors for 115/1/60, 208-230/1/60 and 460/1/60 unit voltages
- PSC motors or EC motors required for 50 Hz operation

Options

- Unit Configurations: mounted components, pre-assembled, pre-charged and Beacon II™
 - Units available with mounted TXV and mounted TXV / solenoid valve
 - Pre-assembled units come with mounted TXV, liquid line solenoid valve and room thermostat. Available in a master liquid line configuration
 - Pre-charged units come with mounted TXV, liquid line solenoid valve, room thermostat and quick connect fittings
 - Various room thermostat variations including rear mount and front access versions
 - Beacon II units come with electronic expansion valves, pressure transducer, temperature sensors and Beacon control board
- Most models available with glycol circuiting (see glycol product brochure)
- Units available with stainless steel housing and drain pan
- Units available with copper fins. Air defrost units also available with polyester coated fins or various coil coatings options
- Units available with insulated drain pan

Specifications

Model ADT Air Defrost | 60 Hz

Model	HP	Shaded Pole Motor				PSC, PSC-TE Motor						EC Motor			
		115/1/60		208-230/1/60		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
ADT040	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT052	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT065	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT070	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT090	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT104	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT120	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT130	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT140	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT156	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT180	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT208	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.6	228	2.0	236
ADT260	1/15	9.0	580	5.0	610	5.0	410	2.5	455	2.0	585	4.5	285	2.5	295
ADT312	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.4	342	3.0	354
ADT370	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.4	342	3.0	354

Model ADT Air Defrost | 50 Hz

Model	HP	PSC Motor						EC Motor			
		110/1/50		220/1/50		380/1/50		110/1/50		220/1/50	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
ADT040	1/15	1.0	68	0.5	65	0.4	82	0.9	57	0.5	59
ADT052	1/15	1.0	68	0.5	65	0.4	82	0.9	57	0.5	59
ADT065	1/15	1.0	68	0.5	65	0.4	82	0.9	57	0.5	59
ADT070	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT090	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT104	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT120	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT130	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT140	1/15	3.0	204	1.5	195	1.2	246	2.7	171	1.5	177
ADT156	1/15	3.0	204	1.5	195	1.2	246	2.7	171	1.5	177
ADT180	1/15	3.0	204	1.5	195	1.2	246	2.7	171	1.5	177
ADT208	1/15	4.0	272	2.0	260	1.6	328	3.6	228	2.0	236
ADT260	1/15	5.0	340	2.5	325	2.0	410	4.5	285	2.5	295
ADT312	1/15	6.0	408	3.0	390	2.4	492	5.4	342	3.0	354
ADT370	1/15	6.0	408	3.0	390	2.4	492	5.4	342	3.0	354

Physical Data

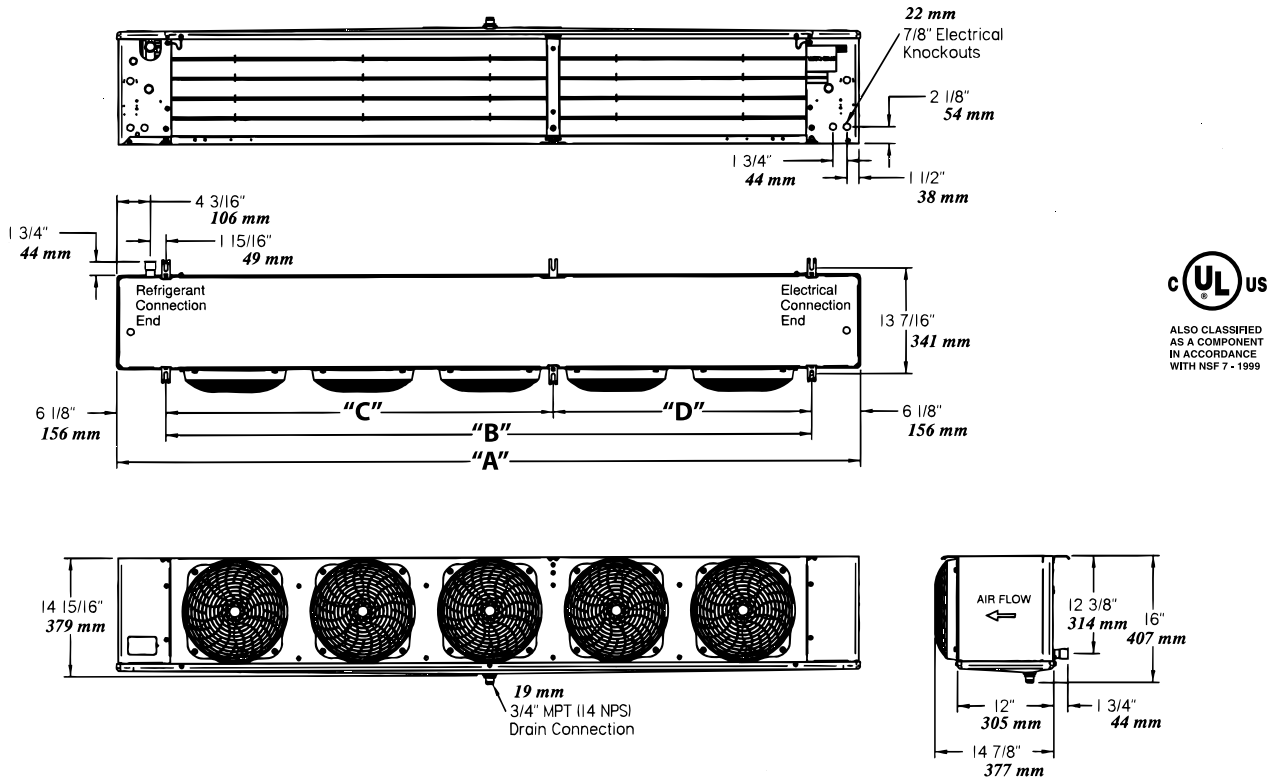
Model ADT Air Defrost

Model	No. of Fans	Connections (in.)				Approx. Net Wt.	
		Coil Inlet OD	Suction ID	External Equalizer OD	Drain MPT	lbs.	kg
ADT040	1	1/2	5/8	1/4	3/4	28	13
ADT052	1	1/2	5/8	1/4	3/4	31	15
ADT065	1	1/2	7/8	1/4	3/4	34	16
ADT070	2	1/2	7/8	1/4	3/4	45	21
ADT090	2	1/2	7/8	1/4	3/4	48	22
ADT104	2	1/2	7/8	1/4	3/4	49	23
ADT120	2	1/2	7/8	1/4	3/4	51	24
ADT130	2	1/2	7/8	1/4	3/4	53	25
ADT140	3	1/2	7/8	1/4	3/4	63	29
ADT156	3	1/2	7/8	1/4	3/4	67	31
ADT180	3	1/2	7/8	1/4	3/4	69	32
ADT208	4	1/2	1-1/8	1/4	3/4	82	38
ADT260	5	1/2	1-1/8	1/4	3/4	103	47
ADT312	6	1/2	1-1/8	1/4	3/4	124	57
ADT370	6	1/2	1-3/8	1/4	3/4	127	58

Model LET/LE Electric Defrost

Model	No. of Fans	Connections (in.)				Approx. Net Wt.	
		Coil Inlet OD	Suction ID	External Equalizer OD	Drain MPT	lbs.	kg
LET035	1	1/2	5/8	1/4	3/4	24	11
LET040	1	1/2	5/8	1/4	3/4	26	12
LET047	1	1/2	5/8	1/4	3/4	29	14
LET065	2	1/2	5/8	1/4	3/4	43	20
LET075	2	1/2	5/8	1/4	3/4	45	21
LET090	2	1/2	7/8	1/4	3/4	48	22
LET120	3	1/2	7/8	1/4	3/4	60	28
LET140	3	1/2	7/8	1/4	3/4	62	29
LET160	4	1/2	1-1/8	1/4	3/4	81	37
LET180	4	1/2	1-1/8	1/4	3/4	84	39
LET200	5	1/2	1-1/8	1/4	3/4	101	46
LET240	6	1/2	1-1/8	1/4	3/4	121	55
LET280	6	1/2	1-1/8	1/4	3/4	124	57
LLE041	1	1/2	5/8	1/4	3/4	28	13
LLE068	2	1/2	7/8	1/4	3/4	44	21
LLE080	2	1/2	7/8	1/4	3/4	47	22
LLE102	3	1/2	7/8	1/4	3/4	59	27
LLE136	4	1/2	1-1/8	1/4	3/4	80	37
LLE170	5	1/2	1-1/8	1/4	3/4	100	46
LLE204	6	1/2	1-1/8	1/4	3/4	120	55
LLE235	6	1/2	1-1/8	1/4	3/4	123	56

Dimensional Data



Dimensional Data For All Models

Air Defrost Model	Electric and Hot Gas Defrost Model		No. of Fans	Dimensions							
				A		B		C		D	
				in.	mm	in.	mm	in.	mm	in.	mm
040	035	-	1	29.50	749.3	17.25	438.1	-	-	-	-
052	040	-	1	29.50	749.3	17.25	438.1	-	-	-	-
065	047	041	1	29.50	749.3	17.25	438.1	-	-	-	-
070	-	-	2	45.50	1,155.7	33.25	845	-	-	-	-
090	065	-	2	45.50	1,155.7	33.25	845	-	-	-	-
104	-	-	2	45.50	1,155.7	33.25	845	-	-	-	-
120	075	068	2	45.50	1,155.7	33.25	845	-	-	-	-
130	090	080	2	45.50	1,155.7	33.25	845	-	-	-	-
140	120	102	3	61.50	1,562.1	49.25	1,251	-	-	-	-
156	-	-	3	61.50	1,562.1	49.25	1,251	-	-	-	-
180	140	-	3	61.50	1,562.1	49.25	1,251	-	-	-	-
208	160	-	4	77.50	1,968.5	65.25	1,657	-	-	-	-
-	180	136	4	77.50	1,968.5	65.25	1,657	-	-	-	-
260	200	170	5	93.50	2,374.9	81.25	2,064	48.63	1,235.1	32.63	828.7
312	240	204	6	109.50	2,781.3	97.25	2,470	48.63	1,235.1	48.63	1,235.1
370	280	235	6	109.50	2,781.3	97.25	2,470	48.63	1,235.1	48.63	1,235.1

NOTE: Hanger brackets will accept 3/8" / 9.5 mm hanger rods.