



# HTD35AA DELTA LBP Compressor Top Efficiency R600a 220-240V 50Hz

### General

Code number (pre-assembled RSIR start equipment)	CDO00053
Approvals	EN 60335-2-34 w. Annex AA
Compressors on pallet	168

## **Application**

Application	LBP					
Frequency	Hz	50	60			
Evaporating temperature	°C	-35 to -5	_			
Voltage range	V	187 to 264	_			
Max. condensing temperature continuous (short)	°C	60 (70)	_			
Max. winding temperature continuous (short)	°C	120 (130)	_			

Cooling requirements

Frequency	Hz		50			60	
Application		LBP	MBP	НВР	LBP	MBP	НВР
32°C		S	_	_	_	_	_
38°C		S	_	_	_	_	_
43°C		S	_	_	_	_	_
Remarks on application:							

Motor

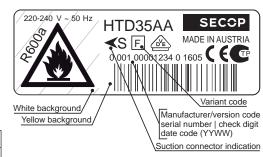
Motor type	RSCR/RSIR				
LRA (rated after 4 sec. UL984), HST   LST	Α	_	1.4		
Cut in Current, HST   LST	Α	_	4.2		
Resistance, main   start winding (25°C)	Ω	84	50		

Design

Displacement	cm <sup>3</sup>	3.5
Oil quantity (type)	cm <sup>3</sup>	84 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	837
Weight without electrical equipment	kg	3.7

### Dimensions

Height	mm	A 133
		В –
Suction connector	location/I.D. mm   angle	C 6.2   73°
	material   comment	Copper   Rubber plug
Process connector	location/O.D. mm   angle	D 6.0   91°
	material   comment	Copper   Rubber plug
Discharge connector	location/I.D. mm   angle	E 5.0   93°
	material   comment	Cu-plated steel   Rubber plug
Oil cooler connector	location/I.D. mm   angle	F –
	material   comment	_
Connector tolerance	I.D. mm	±0.1
Remarks:		



S = Static cooling normally sufficient

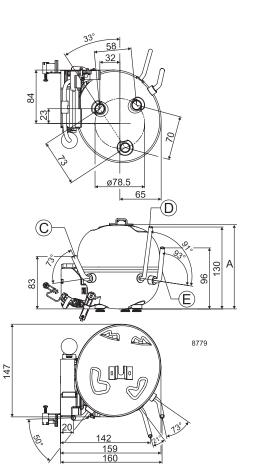
O = Oil cooling

F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)

F<sub>2</sub> = Fan cooling 3.0 m/s necessary

SG = Suction gas cooling normally sufficent

= not applicable in this area



1/2

		_BP

### 220V, 50Hz, PTC consumption incl., static cooling

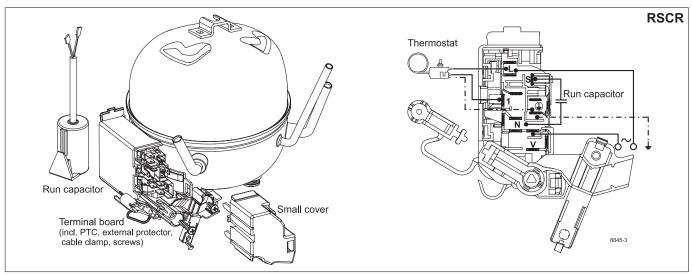
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			25.7	37.2	51.4	56.8	68.1	87.5	109	125	134						
Power cons. in W			24.8	29.6	34.3	35.9	38.8	43.2	47.5	50.3	51.7						
COP in W/W			1.04	1.26	1.50	1.58	1.75	2.02	2.30	2.49	2.59						

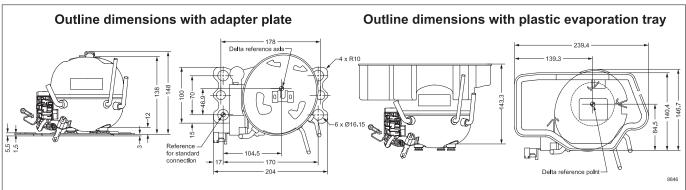
# ASHRAE LBP 220V, 50Hz, PTC consumption incl., static cooling Evan temp in °C -45 -40 -35 -30 -25 -23 3 -20 -15 -10 -6 7

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			28.5	41.3	57	63	75.6	97.1	121	139	149						
Power cons. in W			24.7	29.6	34.3	35.9	38.8	43.2	47.5	50.3	51.7						
COP in W/W			1.15	1.39	1.66	1.76	1.95	2.25	2.56	2.77	2.88						

### ASHRAE LBP 220V, 50Hz, RC 1.5µF, PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			28.5	41.3	57	63	75.6	97.1	121	139	149						
Power cons. in W			23.7	28.1	32.5	33.9	36.7	40.7	44.6	47.1	48.3						
COP in W/W			1.20	1.47	1.76	1.86	2.06	2.38	2.72	2.96	3.08						





Accessories for	HTD35AA	Code number
Run capacitor (optional)	4.8 mm spade connectors	1.5 µF
Small cover (compulsory	, delivered separately)	160943_
Adapter plate		157008_
Evaporator tray		162531_

Test conditions	CECOMAF	ASHRAE
	LBP	LBP
Condensing temperature	45°C	45°C
Ambient temperature	32°C	32.2°C
Suction gas temperature	32°C	32.2°C
Liquid temperature	no subcooling	32.2°C

Spare parts for	HTD35AA	Code number	
Terminal board	4.8 mm spade connectors	BN F7	
(incl. PTC, external pr	DIN E7		
Motor protector	AE90AHM	E7	

Mounting accessories (for	Code number	
Bolt joint for one comp.	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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