

## HTD30AE DELTA LBP Compressor Top Efficiency R600a 115-127V 60Hz

### General

Code number (pre-assembled RSIR start equipment)	CDO00120
Approvals	UL984
Compressors on pallet	168

### Application

Application		LBP	
Frequency	Hz	50	60
Evaporating temperature	°C	–	-35 to -5
Voltage range	V	–	95 to 135
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	HBP	LBP	MBP	HBP
32°C		–	–	–	S	–	–
38°C		–	–	–	S	–	–
43°C		–	–	–	S	–	–
Remarks on application:							

### Motor

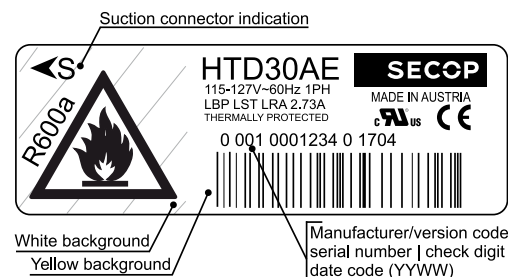
Motor type		RSCR/RSIR	
LRA (rated after 4 sec. UL984), HST   LST	A	–	2.7
Cut in Current, HST   LST	A	–	7.4
Resistance, main   start winding (25°C)	Ω	17.0	21.5

### Design

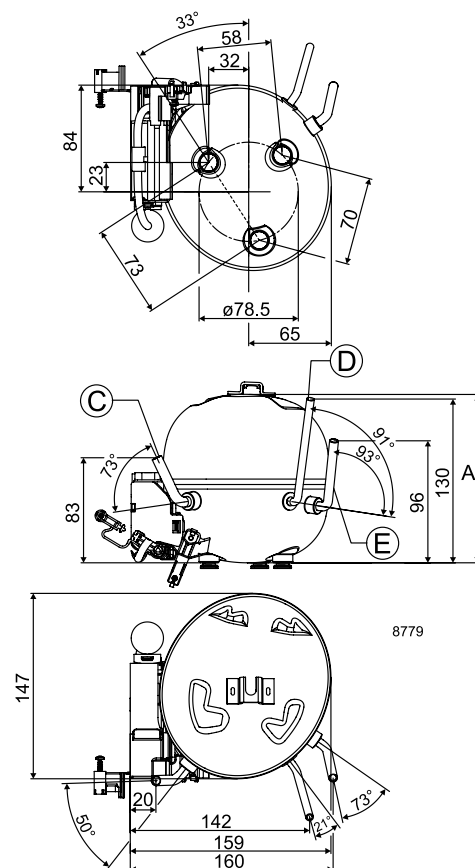
Displacement	cm <sup>3</sup>	3.0
Oil quantity (type)	cm <sup>3</sup>	84 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	837
Weight without electrical equipment	kg	3.6

### Dimensions

Height	mm	A	133
		B	–
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 sufficient
- = not applicable in this area



**CECOMAF LBP**

115V, 60Hz, 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			26.4	37.9	51.6	56.8	67.8	86.9	109	126	135						
Power cons. in W			25.2	29.4	33.4	34.8	37.6	42.1	47.1	50.8	52.9						
Current cons. in A			0.14	0.16	0.18	0.18	0.19	0.21	0.24	0.25	0.26						
COP in W/W			1.05	1.29	1.54	1.63	1.80	2.07	2.32	2.48	2.55						

**ASHRAE LBP**

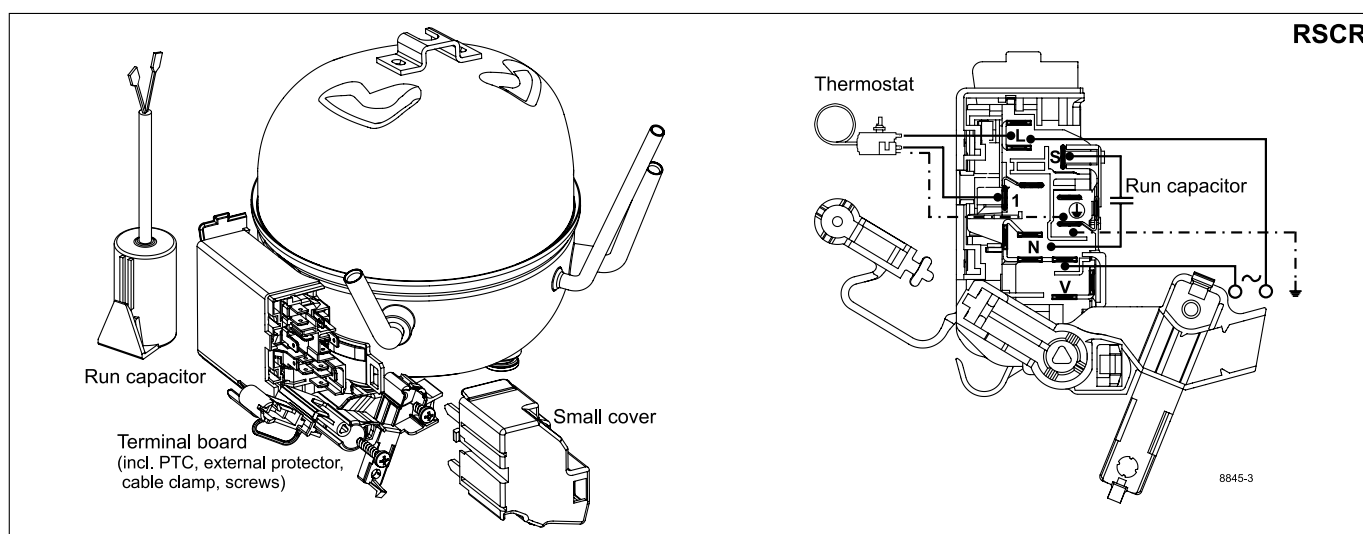
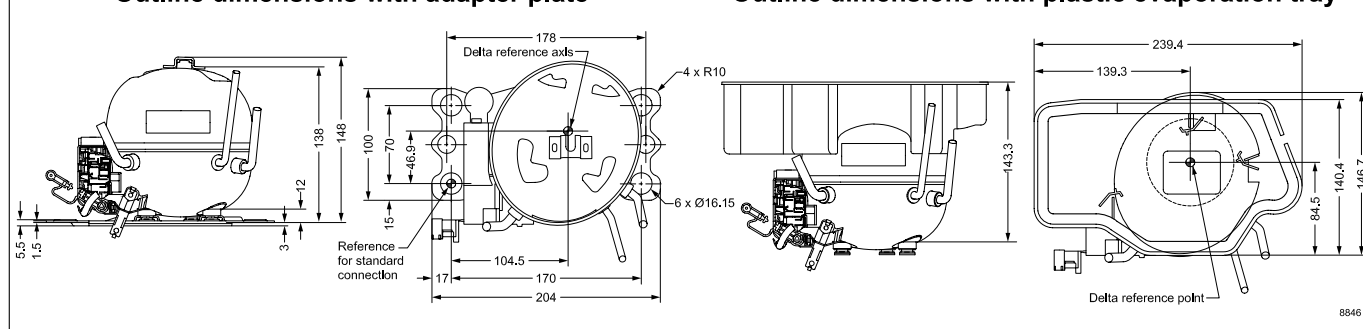
115V, 60Hz, PTC consumption incl., static cooling

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			29.2	42.1	57.2	63.0	75.2	96.4	121	140	150						
Power cons. in W			25.2	29.3	33.4	34.8	37.6	42.0	47.1	50.8	52.9						
Current cons. in A			0.14	0.16	0.18	0.18	0.19	0.21	0.24	0.25	0.26						
COP in W/W			1.16	1.43	1.71	1.81	2.00	2.29	2.57	2.75	2.84						

**ASHRAE LBP**

115V, 60Hz, RC 2.0µF, 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			29.5	42.5	57.8	63.7	76	97.4	122	141	152						
Power cons. in W			24.8	28.9	32.9	34.2	37.0	41.4	46.3	50.0	52.0						
Current cons. in A			0.13	0.15	0.17	0.18	0.19	0.21	0.23	0.25	0.26						
COP in W/W			1.19	1.47	1.76	1.86	2.06	2.35	2.64	2.82	2.91						

**Outline dimensions with adapter plate****Outline dimensions with plastic evaporation tray**

Accessories for	HTD30AE	Code number	Test conditions	CECOMAF LBP	ASHRAE LBP
Run capacitor (optional)	4.8 mm spade connectors	2.0 µF	Condensing temperature	45°C	45°C
Small cover (compulsory, delivered separately)		160943_	Ambient temperature	32°C	32.2°C
Adapter plate		157008_	Suction gas temperature	32°C	32.2°C
Evaporator tray		162531_	Liquid temperature	no subcooling	32.2°C

Spare parts for	HTD30AE	Code number	Mounting accessories (for adapter plate)	Code number
Terminal board	4.8 mm spade connectors	BK E1	Bolt joint for one comp.	Ø: 16 mm 118-1917
(incl. PTC, external protector, cable clamp, screws)			Bolt joint in quantities	Ø: 16 mm 118-1918
Motor protector	AE25FJ6	E1	Snap-on in quantities	Ø: 16 mm 118-1919

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