

# Mbsm.pro, Compressor, P14TY, 3/8 hp, Cooling, hmbp, r12, 1ph220v

7 April 2025 | No Comments







						COI	MPRESS	SORS							
Modell / Modelo Modell / Modele	Power / Potencia Leistung / Pulsannos	Cpr cooling / Enfrismiento Kühlung / Rafroldmennent	Displacement / 3 Cilindrada Hubraum / Cylindrio		Evapo	Capa	erng/.Ton	orifica ng orifique V 3,4/5 BTL up de evas	J/h		Expansion / Expansión Brapritzung / Détants	9 Oil / Acetes	Weight / Paro Gewicht / Paids	Motor / Motor Motor / Motour	Searting / Arrangue Anlauf / Démarrage
								_							
					CE	COMAF	HMB (W)	r	Ast	IRAE					
	R22			-20	-15		5	10		.2			R22 50 Hz		
220-240V !						W	COP		kol/h	COP					
L40TNa	1/6	F	404	149	194	458	1.68	544	460	1.91	C	300	9.5	RSIR	P
L40TNb	1/6	F	404	149	194	458	1.68	544	460	1.91	CV	300	9.5	CSIR	R.
L45TN	1/5	F	4.50	156	206	497	1.68	592	500	1.91	CV	300	9.5	CSIR	R.
L57TNa	1/5	F	5.67	194	255	612	1.72	728	615	1.93	C	300	9.5	RSIR	P
L57TNb L76TN	1/5	F	7.57	194 268	255 347	612 816	1.72	728 971	820	1.93	CV	300 470	9.5	CSIR	R. R.
L88TN	3/8	F	8.85	322	416	975	1.74	1161	980	1.97	CV	400	10.6	CSIR	R.
PIZTN	1/2	F	12.00	412	537	1312	2.00	1574	1323	2.26	CV	400	12.3	CSR	R.
S22TN	7/8	F	21.77	645	890	2460	2.28	3000	2500	2.60	CV	887	22.7	CSR	R.
S26TN	1	F	25.93	857	1182	3027	2.20	3623	3051	2.50	CV	887	22.7	CSR	R.
200-220/2	-	0Hz -													
L40TN	1/6	F	4.04	149	194	458	1.70	544	460	1.91	CV	300	9.5	CSIR	R.
L4STN LS7TN	1/5	F	4.50 5.67	170	216	516 626	1.72	618 748	520 630	1.95	CV	300 400	9.5 9.5	CSIR	R. R.
L76TN	3/8	F	7.57	272	348	833	1.80	999	840	2.04	CV	470	100	CSIR	R.
LISTN	3/8	F	8.85	322	416	975	1.75	1161	980	1.97	CV	400	10.6	CSIR	R.
							HBP								
	R22 50 H			-15	-3	COHAF	(W) 5 COP	10		.2 COP	R22 50 Hz				
200-220/2	_	OHz -													
XI6TN	3/4	F	16.03	765 895	1231	1785 2079	2.04	2094 2438	1782	2.30	CV	500	17.8	CSR	R. R.
XISTN	3/4	1	18.40	895	1435	2009	2.11	243B	20/5	2.40	CV	500	17/8	CSR	H.
							нмв								
	R27				CE	COMAF		•	Ast	IRAE					
	60 H			-20	-15		5	10		.2			R22		
230V 60Hz						W	COP		kolh	COP					
PI2TN	1/2	F	12.00	494	644	1575	1.95	1889	1588	2.23	C-V	400	123	CSR	R.
S26TN		F	25.93	1027	1418	3633	2.12	4347	3661	2.36	C-V	887	22.7	CSR	R.
200-220/2 L40TN	1/6	OHz ~	404	179	233	550	1.67	653	552	1.89	CV	300	9.5	csrursin	R.
L45TN	1/5	F	4.50	204	260	619	1.69	742	624	1.91	CV	300	9.5	CSIR	R.
L57TN	1/5	F	5.67	243	314	751	1,70	897	756	1.91	CV	400	9.5	CSPURSIN	R.
L76TN	3/8	F	7.57	327	417	1000	1.79	1199	1008	2.02	CV	470	10.0	CSIR	R.
LSSTN	3/8	F	8.85	387	499	1170	1.69	1393	1176	1.90	CV.	400	10.6	CSIR	R.
XISTN		F	15.21	573	780	2078	2.15	2519	2106	2.45	C-V	887	21.0	CSR	R.
115-127V 6	_	-	7.57	207	417	1000	1.790	1100	1000	2.02	C1/	470	10.5	200	
L76TN	18	F	7.57 8.85	327 387	417	1000	1.79	1199	1008	2.02	CV	470	10.2	CSIR CSIR	R R
LESTN			0.83	307	499	1170	1.69	1393	1176	1.90	CV	400	10.6	CSIK	R
112A 90M±	_	F	12.00	494	644	1575	1.94	1889	1588	2.20	C-V	400	12.0	CSR	R
PIZTN	1,/2.		12.00												

https://www.mbsm.pro/wp-content/uploads/2025/04/Mbsm\_dot\_pro\_private\_PDFMbsm\_dot\_pro\_private\_PDF\_S26TY.pdf

The **P14TY** is a refrigerant compressor model listed in the provided datasheet, designed for use in refrigeration or air conditioning systems. Below is a summarized technical breakdown of its key specifications:



## **P14TY Compressor Specifications**

Parameter	Value	Notes
Model	P14TY	Part of a series (likely Panasonic or similar brand).

Parameter	Value	Notes
Power (HP)	3/8 HP	~0.375 horsepower.
Displacement	14.00 cm <sup>3</sup>	Cylinder volume per revolution.
Refrigerant	R12 (CFC)	Older refrigerant (now phased out; check local regulations).
Cooling Capacity	<ul><li>W: 985 W</li><li>kcal/h: 996</li><li>BTU/h: ~3,360</li></ul>	At -25°C evaporating temp (CECOMAF conditions).
COP (Efficiency)	1.73 (W/W)	Coefficient of Performance.
Oil Type/Volume	400 cm <sup>3</sup>	Mineral or alkylbenzene oil (for R12).
Weight	11.5 kg	
Motor Type	CSIR (Capacitor Start, Induction Run)	Single-phase operation.
Starting Method	Relay (R)	
Voltage/Frequency	220-240V, 50Hz	Single-phase AC.
Expansion Type	Capillary tube (C) or Valve (V)	Configurable based on application.

#### **Key Observations**

- 1. Refrigerant (R12):
  - The P14TY is designed for **R12**, an obsolete CFC refrigerant banned under the Montreal Protocol due to ozone depletion. Modern alternatives (e.g., R134a, R404A) require retrofitting or replacement.
- 2. Applications:
  - Likely used in **medium-temperature refrigeration** (e.g., commercial refrigerators, chillers) given its capacity and COP at -25°C evaporating temperature.
- 3. Efficiency (COP 1.73):
  - Lower COP compared to modern compressors, indicating higher energy consumption.
- 4. Replacement Considerations:
  - If retrofitting for alternative refrigerants, ensure compatibility with oil type (e.g., POE for HFCs) and system components.
  - Verify electrical specs (voltage, starting torque) for new installations.

### **Testing Conditions (CECOMAF/ASHRAE)**

- **Evaporating Temp**: -25°C (LBP testing for low-temperature applications).
- Condensing Temp: 55°C.
- Ambient Temp: 32°C.

#### **Actionable Recommendations**

- For Maintenance:
  - Check oil levels and contamination if still using R12.
  - Inspect capacitors/relays (common failure points in CSIR motors).
- For Replacement:
  - Consider modern equivalents (e.g., Panasonic/Copeland models for R404A/R134a).
  - Consult HVAC technician for system compatibility and retrofitting.



Attachment
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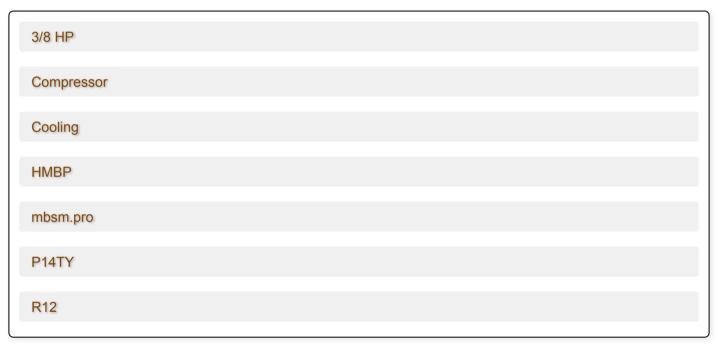
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Tags: 3/8 HP, Compressor, Cooling, HMBP, mbsm.pro, P14TY, R12

← Mbsm.pro, Compressor, BTF60AA, 1/7 hp, r600a, lbp, Serbian Compressor, serie T, from 180 L to 200 L, from 70 to 75 W