

# Lo-Profile Unit Coolers

## Air and Electric Defrost

### The Perfect Complement.

The Lo-Profile PLP (Air Defrost) and PLP-E (Electric Defrost) Unit Coolers are the perfect complement to Tecumseh's rugged Indoor and new Gen III Outdoor Condensing Units.

Like Tecumseh's condensing units, these Unit Coolers are designed to handle the rigors of commercial refrigeration where reliable cooling is required under varying loads and operating conditions. Tecumseh Unit Coolers are constructed from quality materials including a textured aluminum non-corrosive cabinet, aluminum fan blades, and durable polycarbonate fan guards.

The addition of Lo-Profile PLP and PLP-E Unit Coolers provides a matched high-side/low-side system design that can be shipped along with one or more condensing units, to your facility or directly to the job site. PLP and PLP-E Unit Coolers are easily adapted as a replacement or for use in original equipment. Models cover a capacity range from 3,800 to 30,000 Btu/h in one to six fan unit cooler sizes, scaled to capacity.

Fan motor options include thermally protected, permanently lubricated high efficiency PSC and the highest efficiency EC type. The evaporator coil is an efficient copper tube and aluminum fin design. PLP-E models have evenly spaced serpentine tubular heating elements, defrost termination switch, and fan delay control for ideal defrosting.

The product is designed for today's space-conscious environment, allowing maximum capacity in a compact footprint while providing ease of installation and maintenance for the field technician. Flush ceiling mounting provides a low silhouette height of 13 1/2". The electrical junction box is located outside the cabinet for easy hook up and a removable side panel and hinged drain pan allow for easy servicing.



# Features and Benefits

- **LO-PROFILE & COMPACT**

Low silhouette height of only 13 1/2 inches.

Compact unit to be ceiling mounted.

- **DESIGN AND FEATURES**

Easily adapted as a replacement unit or for use in original equipment.

Thermally protected, permanently lubricated PSC or highest efficiency EC motors.



- **INSTALLATION & SERVICE**

Junction box outside cabinet for easy hook up.

Removable side panel and hinged drain pan for easy servicing.

- **QUALITY MATERIALS**

Textured aluminum cabinet.

Aluminum fins (6 fins Per Inch) and seamless copper tubing coil.

Aluminum fan blades.

Polycarbonate fan guards.

- **ELECTRIC DEFROST MODELS ONLY**

Serpentine tubular heating elements are evenly spaced for ideal defrosting.

Defrost termination switch and fan delay control insures defrost without overheating.

# Lo-Profile Unit Coolers

## Nomenclature

**PLP 430 (E)(\*A)**

**Product Family**

**EC Fan Motor**

**Btu/h Capacity**

**Electric Defrost**

Note: Btu/h Capacity actual is in thousands. For Example, 430 = PLP 4300\*\*

• Lo-Profile designed for Medium and Low temperature applications, capacity 3,800 - 30,000 Btu/h

**Agency Approval:** PLP and PLP-E Unit Coolers are in compliance with both U.S. and Canadian safety agency requirements.

## Air Defrost

Model	Tecumseh Part No.	Btu/h @ 10°F TD	Btu/h @ 15°F TD	CFM	Fan Type	Fan Motor Amps 115V	Fins Per Inch
<b>Medium Temperature, Air Defrost - Low Profile 115/60/1</b>							
PLP-380	6290007	3,800	6,560	600	PSC	0.75	6
PLP-380*A	6689E	3,800	6,560	600	EC	0.60	6
PLP-500	6291007	5,000	6,000	600	PSC	0.75	6
PLP-500*A	6692E	5,000	6,000	600	EC	0.60	6
PLP-600	6288007	6,000	7,200	600	PSC	0.75	6
PLP-600*A	6695E	6,000	7,200	600	EC	1.20	6
PLP-750	6289007	7,500	9,000	1,200	PSC	1.50	6
PLP-750*A	6698E	7,500	9,000	1,200	EC	1.20	6
PLP-900	6275007	9,000	10,800	1,200	PSC	1.50	6
PLP-900*A	6715E	9,000	10,800	1,200	EC	1.20	6
PLP-1000	6292007	10,000	12,000	1,200	PSC	1.50	6
PLP-1000*A	6701E	10,000	12,000	1,200	EC	1.20	6
PLP-1250	6277007	12,500	15,000	1,200	PSC	1.50	6
PLP-1250*A	6717E	12,500	15,000	1,200	EC	1.80	6
PLP-1500	6293007	15,000	18,000	1,800	PSC	2.25	6
PLP-1500*A	6704E	15,000	18,000	1,800	EC	1.80	6
PLP-1750	6279007	17,500	21,000	1,800	PSC	2.25	6
PLP-1750*A	6720E	17,500	21,000	1,800	EC	1.80	6
PLP-2000	6294007	20,000	24,000	2,400	PSC	3.00	6
PLP-2000*A	6707E	20,000	24,000	2,400	EC	2.40	6
PLP-2500	6295007	25,000	30,000	3,000	PSC	3.75	6
PLP-2500*A	6710E	25,000	30,000	3,000	EC	3.00	6
PLP-3000	6296007	30,000	36,000	3,600	PSC	4.50	6
PLP-3000*A	6712E	30,000	36,000	3,600	EC	3.60	6



# Dimensions



Dimensions (in)			Wt lbs	Connections (in)			Fan No.	Recommended TXV Nominal Capacity @ 10 °F TD*
L	D	H		Liquid	Suction	Drain		
<b>Medium Temperature, Air Defrost - Low Profile 115/60/1</b>								
22 1/2	12 1/4	13 1/2	35	1/2 ODF	5/8 ODF	1" FPT	1	1/4 Ton
22 1/2	12 1/4	13 1/2	35	1/2 ODF	5/8 ODF	1" FPT	1	1/4 Ton
27	12 1/4	13 1/2	38	1/2 ODF	7/8 ODF	1" FPT	1	1/2 Ton
27	12 1/4	13 1/2	38	1/2 ODF	7/8 ODF	1" FPT	1	1/2 Ton
33	12 1/4	13 1/2	46	1/2 ODF	7/8 ODF	1" FPT	1	3/4 Ton
33	12 1/4	13 1/2	46	1/2 ODF	7/8 ODF	1" FPT	1	3/4 Ton
38	12 1/4	13 1/2	55	1/2 ODF	7/8 ODF	1" FPT	2	3/4 Ton
38	12 1/4	13 1/2	55	1/2 ODF	7/8 ODF	1" FPT	2	3/4 Ton
45	12 1/4	13 1/2	64	1/2 ODF	7/8 ODF	1" FPT	2	3/4 Ton
45	12 1/4	13 1/2	64	1/2 ODF	7/8 ODF	1" FPT	2	3/4 Ton
45	12 1/4	13 1/2	67	1/2 ODF	7/8 ODF	1" FPT	2	1 Ton
45	12 1/4	13 1/2	67	1/2 ODF	7/8 ODF	1" FPT	2	1 Ton
54	12 1/4	13 1/2	81	1/2 ODF	7/8 ODF	1" FPT	2	1 Ton
54	12 1/4	13 1/2	81	1/2 ODF	7/8 ODF	1" FPT	2	1 Ton
63	12 1/4	13 1/2	90	1/2 ODF	7/8 ODF	1" FPT	3	1 1/2 Ton
63	12 1/4	13 1/2	90	1/2 ODF	7/8 ODF	1" FPT	3	1 1/2 Ton
72	12 1/4	13 1/2	99	1/2 ODF	7/8 ODF	1" FPT	3	1 1/2 Ton
72	12 1/4	13 1/2	99	1/2 ODF	7/8 ODF	1" FPT	3	1 1/2 Ton
81	12 1/4	13 1/2	120	1/2 ODF	1 1/8 ODF	1" FPT	4	2 Ton
81	12 1/4	13 1/2	120	1/2 ODF	1 1/8 ODF	1" FPT	4	2 Ton
99	12 1/4	13 1/2	155	1/2 ODF	1 1/8 ODF	1" FPT	5	2 1/2 Ton
99	12 1/4	13 1/2	155	1/2 ODF	1 1/8 ODF	1" FPT	5	2 1/2 Ton
117	12 1/4	13 1/2	180	1/2 ODF	1 1/8 ODF	1" FPT	6	2 1/2 Ton
117	12 1/4	13 1/2	180	1/2 ODF	1 1/8 ODF	1" FPT	6	2 1/2 Ton

\* Externally Equalized TXV Required - 1/4" equalizer tube is provided. NOTE: Verify with valve manufacturer recommendations for sizing.