

Customer satisfaction is our principle objective.

We offer you best in class indigenous product with global standard quality.

We value your growth by controlling project costs.

We respect your time by providing efficient deliveries and swift service.

We regard your efforts by providing easily serviceable modular installation concepts.

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## ENZO EVAPORATORS. THE PROVEN PERFORMER.



**RISHABH ENTERPRISES HVAC&R PVT. LTD.**

Innovative Solutions  
through Energy Efficient Technologies  
[www.rishabhenterprises.in](http://www.rishabhenterprises.in)



AN **RE** PRODUCT

EVAPORATORS



1

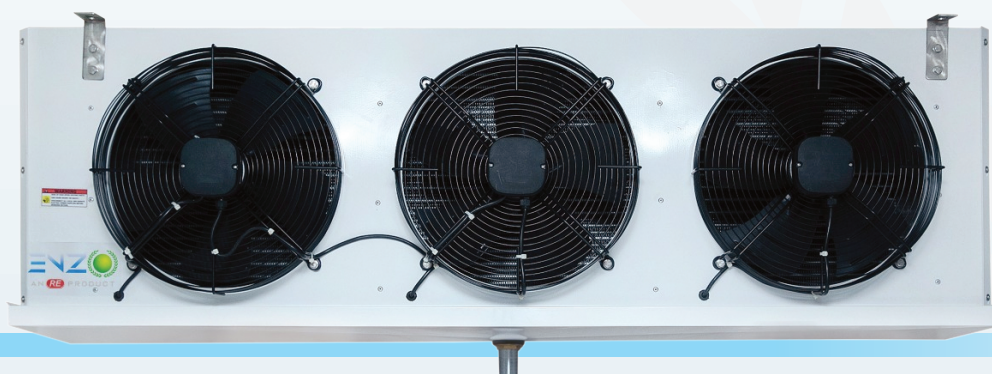
### Advantages

- Compact design
- Optimised casing dimensions for transport and storage
- Easy to clean
- Electrical defrost, factory-fitted or as a heating set for installation by customer

2

### Inspection and cleaning

- Easy access to all components
- Heat exchanger can be cleaned from three sides
- Hinged inner and outer trays
- Outer tray is thermally decoupled to prevent water condensation



### Vaccines



### Food & Vegetables



### Pharmaceuticals



### Dairy



### Ice-Cream



### Poultry & Fisheries



IP65 Terminal Connector

Heavy duty hinges  
for longer and safer life



Customisable Casing –  
Al / GI Powder Coated or SS 304 Casing

Units Customisable with  
EBM Papst or Zeihl Abbegg Fans

**ebmpapst**

**ZIEHL-ABEGG**

3

#### Easy mounting

- Hinged side cover for opening
- Hinges allow hang-out
- Ceiling mounting brackets with slotted hole
- Schrader valve at outlet
- Easy access to all components

4

#### HACCP hygiene certificate

- All materials used are food-safe
- All components are easy to clean
- Visual inspection of the entire unit possible
- Support bracket flush with upper surface of casing

#### Suitable applications

- Commercial refrigeration Industrial refrigeration
- Storage rooms and many types of cold storage rooms with low and medium humidity
- Room temperatures +20 to -28 °C



## ENZO Chiller Series

| Category                          | P R IDU Model No. | PR- Actual Capacity (kW) | PR- Fans (mm) | Fans- Qty | Speed Per Fan (RPM) | Power Consumption per total in W | PR-AirFlow (m <sup>3</sup> /h) | PR- Exchanger Area (m <sup>2</sup> ) | PR-Coil Internal Volume (l) |
|-----------------------------------|-------------------|--------------------------|---------------|-----------|---------------------|----------------------------------|--------------------------------|--------------------------------------|-----------------------------|
| Positive Temp<br>(+2 to +4 deg C) | PRL1.5/301        | 1.25                     | 300           | 1         | 1380                | 70                               | 1490                           | 3.41                                 | 0.8                         |
|                                   | PRL2.2/301        | 2.03                     | 300           | 1         | 1380                | 70                               | 1260                           | 6.82                                 | 1.7                         |
|                                   | PRL3.5/302        | 3.44                     | 300           | 2         | 1380                | 140                              | 2720                           | 10.25                                | 2.5                         |
|                                   | PRL4.3/302        | 4.13                     | 300           | 2         | 1380                | 140                              | 2510                           | 13.66                                | 3.3                         |
|                                   | PRL6/302          | 4.64                     | 300           | 2         | 1380                | 140                              | 2350                           | 17.07                                | 4.1                         |
|                                   | PRL5.5/303        | 5.2                      | 300           | 3         | 1380                | 210                              | 4100                           | 15.36                                | 3.7                         |
|                                   | PRL 7/303         | 6.18                     | 300           | 3         | 1380                | 210                              | 3790                           | 20.49                                | 5                           |
|                                   | PRL 7/402         | 7.47                     | 400           | 2         | 1430                | 320                              | 5230                           | 21.23                                | 5.1                         |
|                                   | PRL8.6/402        | 8.43                     | 400           | 2         | 1430                | 320                              | 4830                           | 26.48                                | 6.3                         |
|                                   | PRL12/403         | 11                       | 400           | 3         | 1430                | 480                              | 7860                           | 31.85                                | 7.7                         |
|                                   | PRL14/403         | 12.75                    | 400           | 3         | 1430                | 480                              | 7250                           | 39.82                                | 9.6                         |
|                                   | PRL16/404         | 15.21                    | 400           | 4         | 1430                | 640                              | 10460                          | 42.48                                | 10.3                        |
|                                   | PRL12/453         | 11.98                    | 450           | 3         | 1350                | 750                              | 8700                           | 22.84                                | 5.5                         |
|                                   | PRL12/502         | 12.62                    | 500           | 2         | 1320                | 760                              | 10150                          | 40.81                                | 9.9                         |
|                                   | PRL16/502         | 15.98                    | 500           | 2         | 1320                | 760                              | 9480                           | 51.01                                | 12.4                        |
|                                   | PRL20/503         | 19.8                     | 500           | 3         | 1320                | 1140                             | 15300                          | 61.21                                | 14.8                        |
|                                   | PRL24/503         | 22.97                    | 500           | 3         | 1320                | 1140                             | 14170                          | 76.52                                | 18.5                        |
|                                   | PRL28/504         | 27.42                    | 500           | 4         | 1320                | 1520                             | 20290                          | 81.62                                | 19.8                        |
|                                   | PRL24/602         | 23.4                     | 600           | 2         | 1360                | 1400                             | 15600                          | 68.54                                | 16.6                        |
|                                   | PRL28/603         | 28.2                     | 600           | 3         | 1360                | 2100                             | 24450                          | 77.11                                | 18.7                        |
|                                   | PRL36/603         | 35.07                    | 600           | 3         | 1360                | 2100                             | 22550                          | 128.52                               | 31.1                        |

**\*Medium Temperature application R404a SST -8°C & RT 0°C, Fin Spacing 4mm (6FPI)**

### Correction Factor

|           | R404a | R134a | R22  | R407C | R507A |
|-----------|-------|-------|------|-------|-------|
| PRL Model | 1     | 0.89  | 1.03 | 1.02  | 1.02  |

**Our Strength :** ENZO Evaporators. The heat exchanger are at the cutting edge of contemporary refrigeration design and process driven manufacturing.

**The evolution has led to the product development that provides:**

- Maximum Efficiency through optimized mass flow design.
- Material & Components specified to World Class Standards.
- Longer life through appropriate material selection and robust construction.

**Heat exchangers :** The air coolers are equipped with a staggered tube system, internally grooved tubes and specially pressed fins. Optimised fin systems and adapted pipe circuiting offer safe operation and high efficiency.

#### Casing

- Corrosion-resistant aluminium alloy AIMg
- Powder coating in RAL 9003
- Stainless steel ceiling mounting bracket
- Options with GI / SS Casing

#### High-quality tray design

- Corrosion-resistant aluminium alloy AIMg
- Powder coating in RAL 9003
- Hinged inner and outer trays

#### Top-quality fans

- Standard EC and AC fans available
- ErP-compliant
- Motor protection with thermocontacts
- 50 or 60 Hz
- Customisable with EBM Papst or Zeihl Abbegg

#### Options / Accessories

- Electric defrost heater for coils and trays
- EC fans
- AC fans
- Heating kit for retrofitting

| ENZO Freeze Series                                                                                                       |               |                   |                     |                                  |                                      |                             |                                 |
|--------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|---------------------|----------------------------------|--------------------------------------|-----------------------------|---------------------------------|
| Category                                                                                                                 | PR- IDU Model | PR- Capacity (kW) | PR- Fans (mm x Qty) | Power Consumption per total in W | PR- Exchanger Area (m <sup>2</sup> ) | PR-Coil Internal Volume (l) | PR- Airflow (m <sup>3</sup> /h) |
| Negative Temp<br>(-18 to -25 deg C)                                                                                      | PRD1.1/301H   | 0.94              | 300 x 1             | 70                               | 4.32                                 | 1.1                         | 1445                            |
|                                                                                                                          | PRD1.4/301H   | 1.25              | 300 x 1             | 70                               | 5.77                                 | 1.6                         | 1345                            |
|                                                                                                                          | PRD2.3/302H   | 2.12              | 300 x 2             | 140                              | 8.63                                 | 2.3                         | 2890                            |
|                                                                                                                          | PRD3/302H     | 2.55              | 300 x 2             | 140                              | 11.54                                | 3.1                         | 2700                            |
|                                                                                                                          | PRD3.8/303H   | 3.88              | 300 x 3             | 210                              | 17.32                                | 4.7                         | 4050                            |
|                                                                                                                          | PRD4.6/402H   | 4.66              | 400 x 2             | 320                              | 17.97                                | 4.9                         | 5620                            |
|                                                                                                                          | PRD5.1/303H   | 4.4               | 300 x 3             | 210                              | 21.68                                | 5.9                         | 4340                            |
|                                                                                                                          | PRD5.6/402H   | 5.41              | 400 x 2             | 320                              | 22.51                                | 6.2                         | 5210                            |
|                                                                                                                          | PRD7.5/403H   | 7.15              | 400 x 3             | 480                              | 26.97                                | 7.4                         | 8380                            |
|                                                                                                                          | PRD7.5/502H   | 7.54              | 500 x 2             | 760                              | 25.92                                | 7.1                         | 11500                           |
|                                                                                                                          | PRD8/403H     | 8.12              | 400 x 3             | 480                              | 33.77                                | 9.3                         | 7820                            |
|                                                                                                                          | PRD8.5/502H   | 8.55              | 500 x 2             | 760                              | 34.62                                | 9.6                         | 10780                           |
|                                                                                                                          | PRD9.5/502H   | 9.27              | 500 x 2             | 760                              | 34.61                                | 9.6                         | 10780                           |
|                                                                                                                          | PRD12/502H    | 11.44             | 500 x 2             | 760                              | 52.01                                | 14.5                        | 10560                           |
|                                                                                                                          | PRD13.5/503H  | 13.47             | 500 x 3             | 1140                             | 51.92                                | 14.4                        | 16100                           |
|                                                                                                                          | PRD14.5/503H  | 14.55             | 500 x 3             | 1140                             | 64.96                                | 18.1                        | 15150                           |
|                                                                                                                          | PRD16/503H    | 16.06             | 500 x 3             | 1140                             | 64.98                                | 18                          | 15150                           |
| PRD Model: Low Temperature Application SST: -25 <sup>0</sup> CRT: -18 <sup>0</sup> C Fin Spacing: 5FPIRefrigerant: R404a |               |                   |                     |                                  |                                      |                             |                                 |

| Correction Factor |       |       |      |       |       |
|-------------------|-------|-------|------|-------|-------|
|                   | R404a | R134a | R22  | R407C | R507A |
| PRD Model         | 1     | 0.84  | 0.96 | 1.29  | 1     |



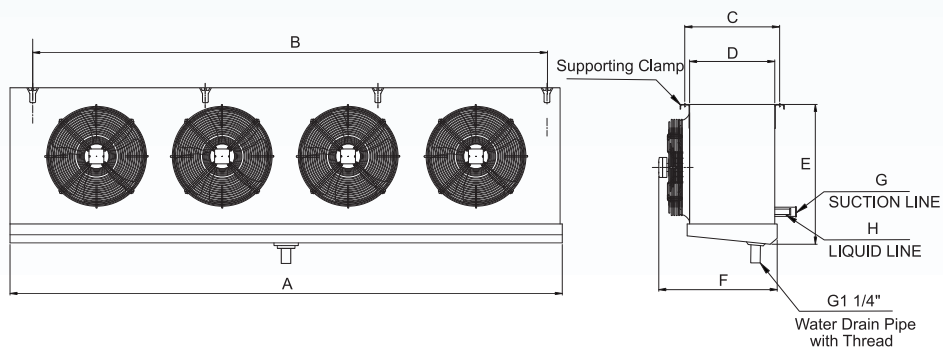
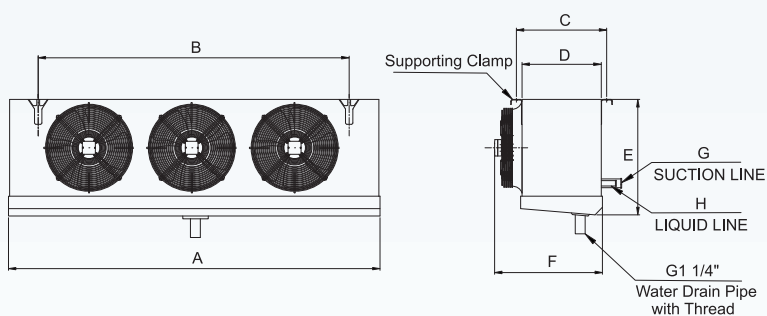
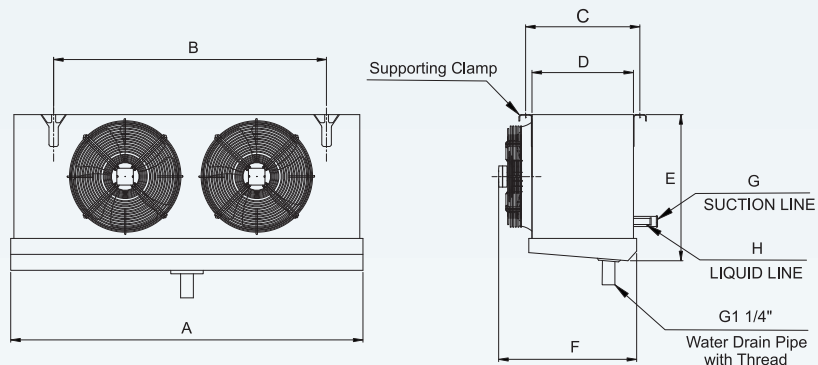
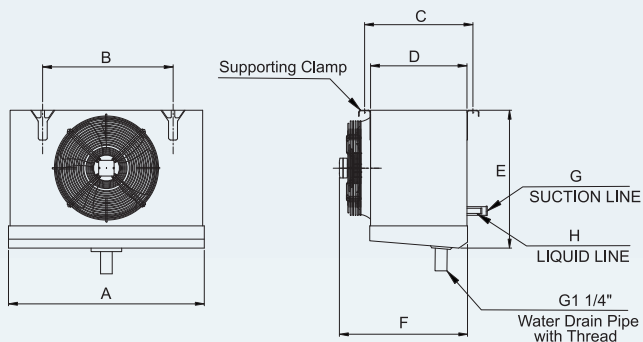
Specifications:-

- a. Copper Tube & Aluminum Fins for different HFC Refrigerants
- b. Fin Spacing available from 4FPI to 6 FPI for Chiller & Frozen Applications
- c. Casing Options available for SS, GI & Aluminum Powder Coated
- d. BTS ( Built To Suit) Units with different Fan size and type according to application

Nomenclature:

P R L 6 / 30 2 - X X

- a. **8th Place** : S- Stainless Steel Body, AL- Aluminum Body, G- GI Powder Coated Body
- b. **7th Place** : H- With Electric Defrost, A- Air Defrost
- c. **7th Place** : No. of Fans: 2 meaning 2 Fans
- d. **5th & 6th Place** : 30 : 300MM Axial Fan Size / 40 : 400MM Axial Fan
- e. **4th Digit** : Capacity in kW @ Standard Euroveat Conditions
- f. **First 3 Digits : Product Series** : PRL – Commercial Chiller Applications, PRD- Commercial Freezer Applications



| Fans<br>(mm x Qty) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G        | H        |
|--------------------|--------|--------|--------|--------|--------|--------|----------|----------|
| 300 x 1            | 660    | 410    | 380    | 325    | 465    | 435    | 5 / 8"   | 1 / 2"   |
| 300 x 2            | 1110   | 860    | 360    | 320    | 460    | 435    | 7 / 8"   | 5 / 8"   |
| 300 x 3            | 1500   | 1255   | 365    | 320    | 465    | 435    | 7 / 8"   | 5 / 8"   |
| 400 x 2            | 1270   | 1070   | 400    | 360    | 600    | 500    | 1 1 / 8" | 7 / 8"   |
| 400 x 3            | 1815   | 1565   | 400    | 360    | 600    | 500    | 1 1 / 8" | 7 / 8"   |
| 400 x 4            | 2260   | 2070   | 400    | 360    | 600    | 500    | 1 1 / 8" | 7 / 8"   |
| 450 x 3            | 1815   | 1565   | 400    | 360    | 600    | 500    | 1 1 / 8" | 7 / 8"   |
| 500 x 2            | 1700   | 1430   | 405    | 455    | 815    | 535    | 1 1 / 8" | 7 / 8"   |
| 500 x 3            | 2370   | 2130   | 405    | 455    | 815    | 535    | 1 3 / 8" | 1 1 / 8" |
| 500 x 4            | 3050   | 2830   | 405    | 455    | 815    | 535    | 1 3 / 8" | 1 1 / 8" |
| 600 x 2            | 2080   | 1859   | 570    | 505    | 1005   | 640    | 1 3 / 8" | 1 1 / 8" |
| 600 x 3            | 2993   | 2773   | 570    | 505    | 1005   | 640    | 1 3 / 8" | 1 1 / 8" |



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