



Refrigeration Systems Hermetic Series

It's not just preservation.
It's the ultimate in preservation.



Blue Star, India's leading refrigeration company, offers a complete range of evaporating and condensing units. These units are designed to deliver superior cooling for food preservation and are equipped to deliver temperatures for various applications.

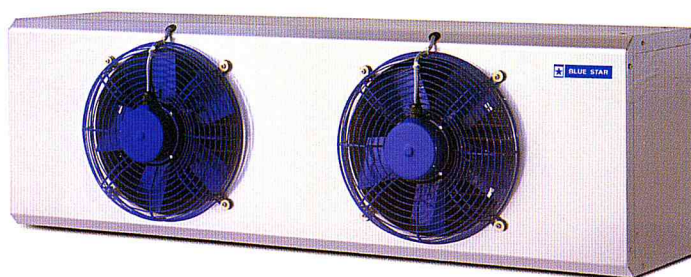
The balanced selection of the evaporator and condensing units assures delivery of capacity. The matching controllers with refrigeration units support each installation and enable the controlling and monitoring of temperature. Each Blue Star installation comes with a weather-proof power panel that allows for easy, speedy, safe and long-lasting power connection. So when it comes to cold storage, trust in the experts for reliable, efficient and trouble-free refrigeration.





Evaporating Units

Blue Star's evaporators are compact and sleek. The evaporator is housed within the cold storage and occupies minimum space. This allows you to utilise the maximum volume of cold storage.



Features:



Stainless steel body (SS304) for enhanced durability and strength



Improved air throw for uniform air distribution



Excellent corrosion resistance



External rotor driven fans have low noise levels and conform to IP45 standards



Inner grooved copper tubes for superior heat transfer



Removable side panels for easy service and minimum downtime

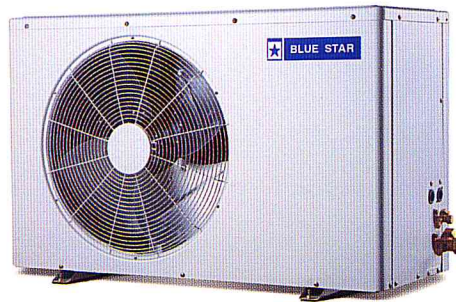


6 FPI coil to enable air-defrosting



Condensing Units

Blue Star's condensing units are characterised by high-efficiency heat transfer and low power consumption.



Features:



Energy-efficient scroll and reciprocating compressors



Pre-charged unit with service valves



Powder coated body makes these units UV and corrosion-resistant



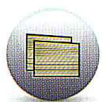
Safety and control devices for better system protection



Inner grooved copper tubes and slit aluminium fins for superior heat transfer



Weather-proof polyester powder coated canopy



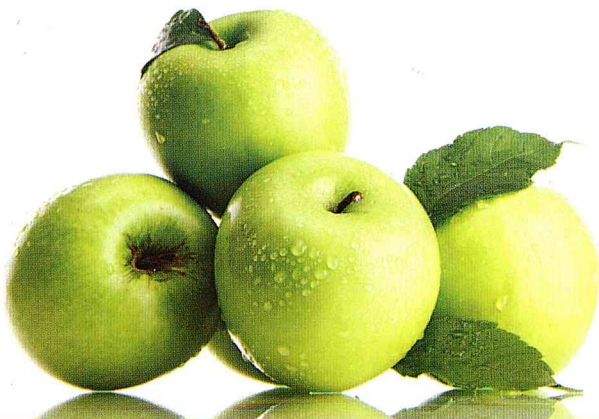
Filter drier for moisture and dirt protection



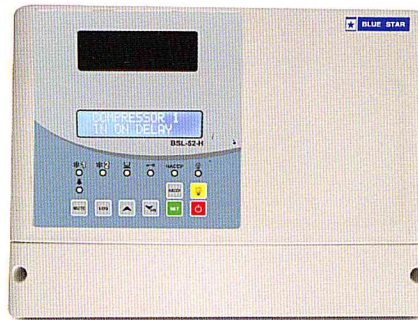
Thermally protected and permanently lubricated fan motors



Smaller footprint for ease of handling and installation



Controller



Blue Star's controller is a two compressor controller with separate set points and differentials for each compressor.

Features:

- Specifically designed for refrigeration applications
- Controls compressor cut off and temperature
- HACCP provision (available in model 52H)
- BMS compatibility (available in model 52H)

Power Panel

Blue Star's Refrigeration Units come with ready-to-use power panels that make electrical connections simple, fast and long-lasting.

Features:

- Embedded switchgear in the Positive Temperature Condensing Unit
- Power Panel with necessary accessories and defrost controls is available for Negative Temperature Units



Technical Specifications

High Temperature Air-cooled Refrigeration System with R404A Refrigerant

| Blue Star Indoor Unit | | Cooling Capacities @ +4°C Room Temperature & 35°C Ambient Temperature | | | | | | | | |
|--------------------------------|---------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Description / Model | Units | RUAHI-0614 | RUAHI-1014 | RUAHI-1514 | RUAHI-2014 | RUAHI-3014-N | RUAHI-4014-N | RUAHI-6024-N | RUAHI-8024-N | RUAHI-8014-N |
| Nominal Capacity | Btu/hr | 6,000 | 10,000 | 15,000 | 20,000 | 30,000 | 40,000 | 60,000 | 80,000 | 80,000 |
| Power Supply | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 415/3/50 | 415/3/50 | 415/3/50 |
| Airflow | CFM | 800 | 1,600 | 2,400 | 3,200 | 4,500 | 5,200 | 12,000 | 11,700 | 11,700 |
| Air Throw | Feet | 12 | 12 | 12 | 12 | 25 | 40 | 45 | 45 | 45 |
| No. of Circuits | Nos. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| Overall Dimensions (W x D x H) | mm | 864 x 480 x 450 | 1245 x 480 x 450 | 1780 x 480 x 450 | 2210 x 480 x 450 | 1710 x 645 x 720 | 1710 x 645 x 720 | 2140 x 840 x 925 | 2140 x 840 x 925 | 2140 x 840 x 925 |
| Dry Weight | kgs | 18 | 25 | 35 | 45 | 72 | 82 | 140 | 150 | 150 |

| Blue Star Outdoor Unit | | Cooling Capacities @ +4°C Room Temperature & 35°C Ambient Temperature | | | | | | | | |
|---|---------|---|-----------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------|
| Description / Model | Units | RUAHOP-0614 | RUAHOP-1014 | RUAHOP-1514 | RUAHOS-2014 | RUAHOS-3014 | RUAHOS-4014 | RUAHOS-3014 | RUAHOS-4014 | RUAHOS-8014 |
| Compressor Type | - | Hermetic Recip | Hermetic Recip | Hermetic Recip | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll |
| Power Supply | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 |
| Comp. Quantity | Nos. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| No. of such Chassis | Nos. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| Each Chassis Overall Dimensions (W x D x H) | mm | 940 x 350 x 560 | 940 x 350 x 560 | 940 x 350 x 560 | 1100 x 444 x 658 | 1100 x 444 x 1259 | 1100 x 444 x 1259 | 1100 x 444 x 1259 | 1100 x 444 x 1259 | 1454 x 632 x 947 |
| Each Chassis Dry Weight | kgs | 50 | 51 | 80 | 105 | 126 | 130 | 126 | 130 | 185 |
| Each Chassis Refrigerant Precharged Qty | kgs | 1.2 | 1.6 | 2.0 | 2.5 | 3.5 | 4.0 | 3.5 | 4.0 | Charged During Installation |

*Product under development

Low Temperature Air-cooled Refrigeration System with R404A Refrigerant

| Blue Star Indoor Unit | | Cooling Capacities @ -23°C Room Temperature & 35°C Ambient Temperature | | | |
|--------------------------------|---------|--|------------------|------------------|------------------|
| Description / Model | Units | RUALI-0614 | RUALI-0914 | RUALI-1214 | RUALI-1814 |
| Nominal Capacity** | Btu/hr | 6,000 | 9,000 | 12,000 | 18,000 |
| Power Supply | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Airflow | CFM | 1600 | 2400 | 3200 | 5500 |
| Air Throw | feet | 12 | 12 | 12 | 25 |
| No. of Circuits | Nos. | 1 | 1 | 1 | 1 |
| Overall Dimensions (W x D x H) | mm | 1245 x 375 x 450 | 1780 x 375 x 450 | 2210 x 375 x 450 | 2085 x 660 x 670 |
| Dry Weight | kgs | 25 | 35 | 45 | 120 |

| Outdoor Unit | | OPTION - 1 | | | |
|--------------------------------|---------|------------------|------------------|------------------|-------------------|
| Description / Model | Units | ZXL020E | ZXL025E | ZXL035E | ZXL050E |
| Compressor Type | - | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll |
| Power Supply | V/Ph/Hz | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 |
| Quantity | Nos. | 1 | 1 | 1 | 1 |
| Overall Dimensions (W x D x H) | mm | 1029 x 424 x 840 | 1029 x 424 x 840 | 1029 x 424 x 840 | 1029 x 424 x 1242 |
| Dry Weight | kgs | 79 | 81 | 93 | 106 |
| Refrigerant Precharged Qty | kgs | Nitrogen Charge | Nitrogen Charge | Nitrogen Charge | Nitrogen Charge |

| Outdoor Unit | | OPTION - 2 | | | |
|--------------------------------|---------|-----------------|-----------------|------------------|------------------|
| Description / Model | Units | LGZ028 | LGZ040 | LGZ050 | LGZ088 |
| Compressor Type | - | Hermetic Recip | Hermetic Recip | Hermetic Recip | Hermetic Recip |
| Power Supply | V/Ph/Hz | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 |
| Quantity | Nos. | 1 | 1 | 1 | 1 |
| Overall Dimensions (W x D x H) | mm | 800 x 600 x 442 | 800 x 600 x 442 | 1000 x 700 x 555 | 1200 x 800 x 671 |
| Dry Weight | kgs | 62 | 69 | 98 | 144 |
| Refrigerant Precharged Qty | kgs | Nitrogen Charge | Nitrogen Charge | Nitrogen Charge | Nitrogen Charge |

Technical Specifications

High Temperature Air-cooled Refrigeration System with R22 Refrigerant

| Blue Star Indoor Unit | | Cooling Capacities @ +4°C Room Temperature & 35°C Ambient Temperature | | | | | | | | |
|--------------------------------|---------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Description / Model | Units | RUAHI-0612 | RUAHI-1012 | RUAHI-1512 | RUAHI-2012 | RUAHI-3012-N | RUAHI-4012-N | RUAHI-6022-N | RUAHI-8022-N | RUAHI-8012-N |
| Nominal Capacity | Btu/hr | 6,000 | 10,000 | 15,000 | 20,000 | 30,000 | 40,000 | 60,000 | 80,000 | 80,000 |
| Power Supply | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 415/3/50 | 415/3/50 | 415/3/50 |
| Airflow | CFM | 800 | 1,600 | 2,400 | 3,200 | 4,500 | 5,200 | 12,000 | 11,700 | 11,700 |
| Air Throw | Feet | 12 | 12 | 12 | 12 | 25 | 40 | 45 | 45 | 45 |
| No. of Circuits | Nos. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| Overall Dimensions (W x D x H) | mm | 864 x 480 x 450 | 1245 x 480 x 450 | 1780 x 480 x 450 | 2210 x 480 x 450 | 1710 x 645 x 720 | 1710 x 645 x 720 | 2140 x 840 x 925 | 2140 x 840 x 925 | 2140 x 840 x 925 |
| Dry Weight | kgs | 18 | 25 | 35 | 45 | 72 | 82 | 140 | 150 | 150 |

| Blue Star Outdoor Unit | | | | | | | | | | |
|---|---------|-----------------|-----------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------|
| Description / Model | Units | RUAHOP-0612 | RUAHOP-1012 | RUAHOP-1512 | RUAHOP-2012 | RUAHOS-3012 | RUAHOS-4012 | RUAHOS-6022 | RUAHOS-8022 | RUAHOS-8012 |
| Compressor Type | - | Hermetic Recip | Hermetic Recip | Hermetic Recip | Hermetic Recip | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll | Hermetic Scroll |
| Power Supply | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 | 415/3/50 |
| Comp. Quantity | Nos. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| No. of such Chassis | Nos. | 1 | 1 | 1 | 1 | 1 | 1 | 2 x RUAHOS-3012 | 2 x RUAHOS-4012 | 1 |
| Each Chassis Overall Dimensions (W x D x H) | mm | 940 x 350 x 560 | 940 x 350 x 560 | 940 x 350 x 560 | 1100 x 444 x 658 | 1100 x 444 x 1259 | 1100 x 444 x 1259 | 1100 x 444 x 1259 | 1100 x 444 x 1259 | 1454 x 632 x 947 |
| Each Chassis Dry Weight | kgs | 51 | 61 | 80 | 110 | 125 | 125 | 125 | 125 | 185 |
| Each Chassis Refrigerant Precharged Qty | kgs | 1.2 | 1.6 | 2.0 | 2.5 | 3.5 | 4.0 | 3.5 | 4.0 | Charged During Installation |

Note: Specifications are subject to change without prior notice.
Refrigeration capacity is based on standard rated conditions.



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