

KLASS
MECHANICAL SALES LTD.
HVAC EQUIPMENT SUPPLY



Why Choose Marvair? Because All of Our Products

- Are Self-Contained Packaged Solutions
- Are Innovations in HVAC Technology and Processes
- Are Designed with Serviceability as a Priority
- Have a Lower Installed Cost
- Encompass a Range of Complete Product Offerings

For more than 50 years, Marvair[®] packaged wall and floor mounted air conditioners and heat pumps have been the ideal HVAC systems for a wide variety of applications including offices, schools, industrial applications, telecommunication shelters and general purpose use. Marvair self-contained systems are factory assembled and thoroughly tested. All components are readily accessible for easy service. Energy efficient operation keeps operating costs to a minimum while state-of-the-art controls offer remote monitoring and configuration using industry standard protocols such as IPVv4/6, BACnet and Modbus.

All Marvair air conditioners and heat pumps are tested and rated in accordance with AHRI standard 390, "Performance Rating of Single Package Air-Conditioners and Heat Pumps" and listed in the AHRI Single Package Vertical Units (SPVU) directory.



MAA/MGA A/C & Heat Pumps

MGA Series A/C

GAA Series A/C w/Gas Heat

Scholar 2.0 & QR

DAC/WAC

MAA/MGA A/C & Heat Pump 10 & 11 EER exterior wall mount air conditioners and heat pumps are used to cool classrooms, telecommunication shelters and electronic equipment rooms. All MAA models are available with a factory installed economizer and GreenWheel Energy Recovery Ventilator.

Cooling Capacities: 1.5–6 Tons (20,000–72,000 BTUH)

Heating Capacities: 2.2–15kw

MGA Series A/C 10 EER dual compressor high capacity exterior wall mount air conditioners are used primarily to cool electronic and mechanical equipment shelters (E-Houses).

Cooling Capacities: 7.5, 10, 12.5 & 15 Tons (90,000–180,000 BTUH)

Heating Capacities: 5–18kw

GAA Series A/C w/Gas Heat 11 EER exterior wall mounted air conditioners with gas heat are ideal for schools, modular buildings, or any other facility with significant heating demands.

Cooling Capacities: 2-6 Tons (24,000-60,000 BTUH)

Heating Capacities: 45,000 - 125,000 BTUHs

Scholar 2.0 & QR air conditioners and heat pumps are the next generation of vertical units installed in the classroom with a variety of ventilation configurations. Newly redesigned with a priority on ease of installation and maintenance.

Cooling Capacities: 2-5 Tons (24,000-60,000 BTUH)

Heating Capacities: 5–18kw

DAC/WAC door or wall mounted direct air cooling units are designed to provide free cooling for telecom shelters and cabinets. They utilize a 48VDC blower motor, motorized damper and MERV 13 air filtration.

Capacity: 2,150 CFM



Specialty Vertical Wall Mount Air Conditioners for Commercial and Industrial Applications

The Industrial Climate Engineering (ICE) brand of AirX Climate Solutions builds specialty units for use in commercial and industrial applications. Our small general purpose Environmental Control Units are built in cooling capacities of 240,000 BTUH to 360,000 BTUH (70 kW to 106 kW). The ICE units are specifically designed for use in commercial and industrial applications for cooling electronic and energy storage equipment with high sensible heat loads.

Designed to be installed on the exterior of the building, no interior space is required. Two openings in the wall allow for the conditioned air (supply) to be introduced into the room and for the indoor air to be returned to the air conditioner.



1,000-10,200 BTUH
(300-3,000 W)
48 VDC Cabinet Cooler



25,500 BTUH (74 kW)
Air Cooled Chiller for
Liquid Cooled Batteries



20 Ton
(53 - 70 kW)
Industrial A/C



25-30 Ton
(88 - 106 kW)
Industrial A/C



30 Ton
(106 kW)
Industrial A/C

NEW!

Marvair & ICE 5-Stage Control

Available on select Marvair and ICE models, our new 5-Stage Control Scheme is a proven effective technology for increasing the efficiency of an HVAC system.

5-Stage products utilize two 2-stage compressors to provide better temperature control and reduced energy consumption. With the use of a unique control scheme, these air conditioners can accomplish 5 discreet cooling stages. The additional stages allow the air conditioner to stage up and down in smaller increments; keeping power consumption lower than traditional dual compressor air conditioners.

- **Ideal Part-Load Performance**
- **Partial Economizer Operation**
- **Dual Refrigerant Circuits**
- **Near N+1 Redundancy**

Compressor	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
#1 Part Load	✓	-	✓	-	-
#1 Full Load	-	✓	-	✓	✓
#2 Part Load	-	-	✓	✓	-
#2 Full Load	-	-	-	-	✓
Percentage	33%	50%	67%	83%	100%

CFA Large Cabinet wall mount air conditioners are used primarily to cool electronic and mechanical equipment shelters (E-Houses). Due to the high internal heat load, these shelters require cooling even when outside temperatures are 60°F (15°C) and below.

Cooling Capacities:

20–30 Tons (240,000–360,000 BTUH, 70–106kW)
35 & 40 Ton Available 3rd Quarter 2024

Heating Capacities:

9–18kW

Features and Benefits

High Efficiency

- Thermal Expansion Valve Improves Efficiency
- High Efficiency Scroll Compressor
- Lanced Fins On the Evaporator and Condenser Coils Improve Heat Transfer

Built-In Reliability

- High and Low Pressure Switch with Lockout
- Adjustable Short Cycle Protection
- Phase Monitor
- High Compressor Temperature Switch
- Internal Motor Overload Protection

Rugged Construction

- Copper Tube, Aluminum Fin Evaporator & Condenser Coil
- Field Or Factory Installed Heaters On Discharge Side of Evaporator Coil
- Baked On Finish Over Galvaneal Steel





Dynaline developed the first gas-fired package terminal air conditioner (PTAC), the DynaLine, in 1985. Now in its third generation design, Dynaline is a leading supplier to the senior housing industry as well as other small commercial markets.

Elderly senior housing and assisted living facility residents require controlled cool summers and warm winters. Because typical systems don't readily adapt to extremes in temperature, warmer, dry gas heat is preferred for its therapeutic effect on residents' respiratory systems. Electric cooling, in turn, is preferred for its rapid response to adjustments. Housing for seniors and the elderly remains expensive because of the necessity for near-hospital-quality security and facility extras not required in normal residential housing. Dynaline3 adds the option of lowering utility expenses by using economical gas heating with electric cooling units.



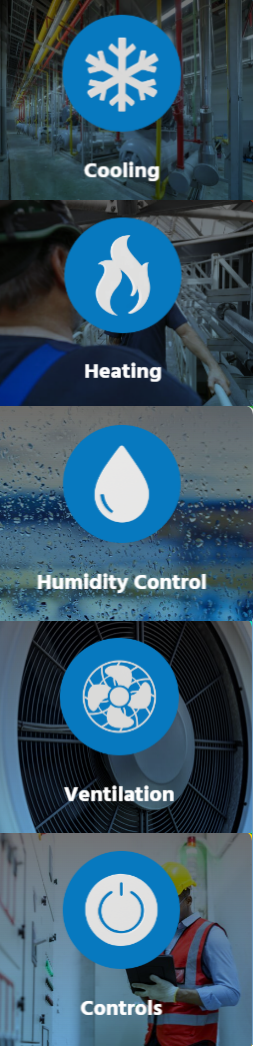
Dynaline 3

- Warm Air Comfort of Gas Heating With High-Efficiency Electric Cooling
- Ideal for hotels/motels, apartments and senior housing
- .8 - 1.25 Tons Cooling
- 9,840 - 16,000 BTUH Heating Capacity

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INDUSTRIAL PRODUCTS



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ISO 9001:2015 Certified Manufacturer of Commercial and Industrial HVAC Systems, Controllers and Accessories



ISO 9001:2015 Certified 11/28/2016, ISO Certified Since February 2000

