



**COMMERCIAL HEATING AND COOLING
SOLUTIONS**





Trane® / Mitsubishi Electric systems are built to provide individual comfort control in any environment. No matter what time of year or part of the country, a room with our system will always be the exact temperature occupants desire. What's more, the unique INVERTER-driven compressor technology makes our systems dramatically more energy efficient than traditional HVAC options.

Whether your building includes a data center or multi-tenant living space, we have a solution that's right for the job. Put our innovation to work for you. Build personalized comfort into your next project.

P-SERIES – Light Commercial Products
CITY MULTI® – Commercial Products

FLEXIBLE COMFORT SOLUTIONS

INDIVIDUAL COMFORT CONTROL FOR COMMERCIAL APPLICATIONS

Our systems not only bring comfort to tenants, but peace of mind to property owners, engineers, and architects of commercial installations. CITY MULTI® variable refrigerant flow (VRF) zoning systems exceed ASHRAE 90.1 standards. Other features of the CITY MULTI lineup include:

- ▶ Higher capacities throughout the R2-Series simultaneous heat recovery product offering.
- ▶ Innovative PWFY Hydronic Heat Exchanger Units to heat a building's water with recycled energy, significantly increasing energy efficiency.
- ▶ Innovative water source VRF technology provides an energy efficient method of cooling and heating by tapping into an existing geothermal source.
- ▶ A suite of individual zone and centralized system controllers provide an improved occupant comfort experience.

HYPER-HEATING INVERTER (H2i)

REVOLUTIONIZING THE HEAT PUMP, AGAIN

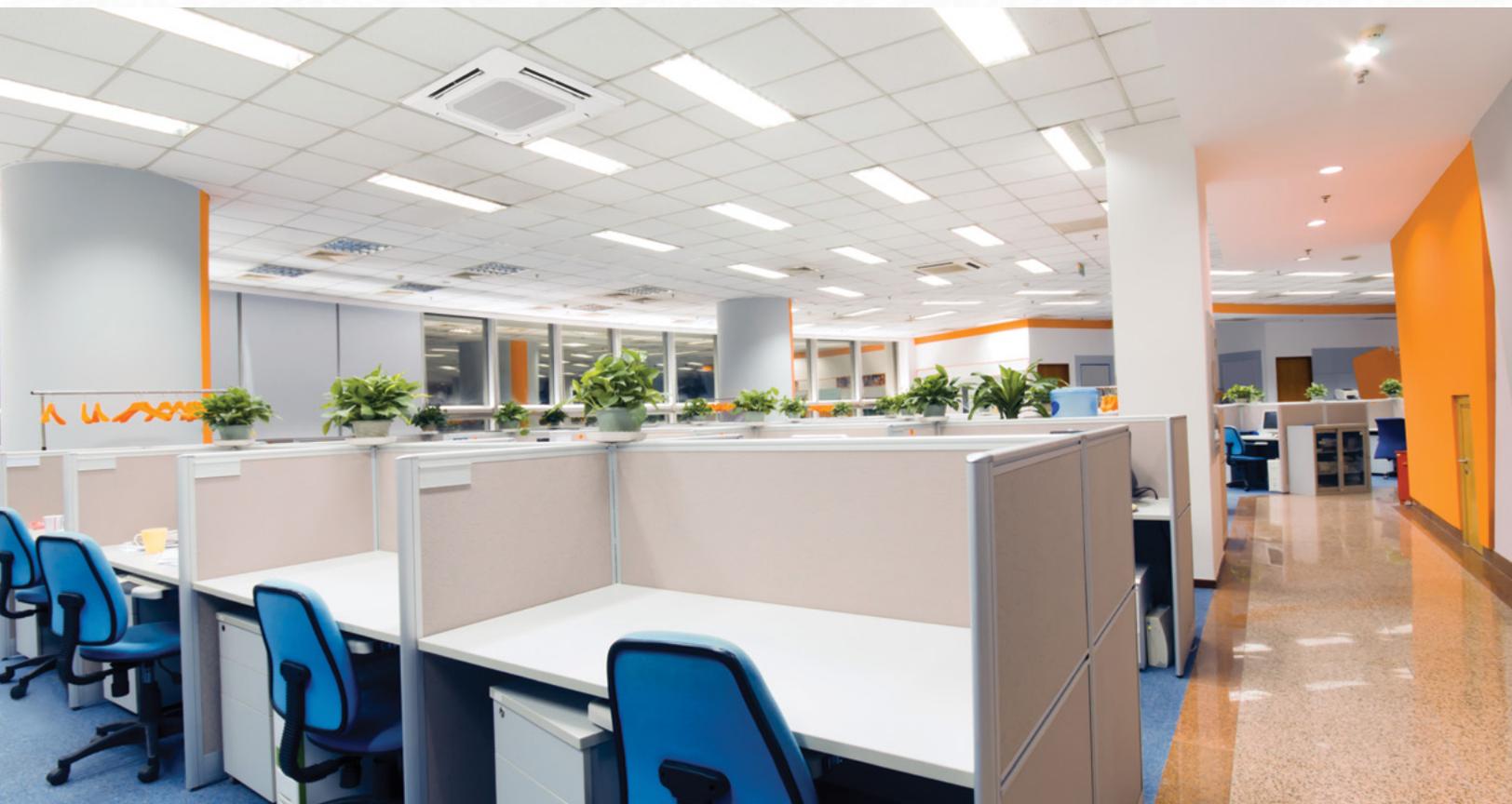
The performance capability of our INVERTER-driven compressor systems is well known throughout the industry. Patented Hyper-Heating INVERTER (H2i) technology, found throughout the CITY MULTI and P-Series outdoor unit line-up takes it a step further. With guaranteed heating operation of up to 85% of total capacity at as low as -13° F outdoor ambient, H2i systems can provide year-round comfort, even on the coldest days of the year, and are flexible enough to satisfy almost any commercial renovation or new construction project.

Visit our website www.trane.com/ductless for detailed information and specifications on all of the heating and cooling products listed.

FEATURING

INVERTER

DRIVEN SYSTEMS



LIGHT COMMERCIAL

SPLIT-DUCTLESS AND DUCTED

P-SERIES

Large residential, light commercial, and institutional



PKA-A12, 18, 24, 30, 36 - Wall-mounted
 Rated Btu/h: 12,000 - 34,200
 SEER Range: 18.5 - 21.4
 HSPF Range: 9.2 - 11.0



PCA-A24, 30, 36, 42 - Ceiling-suspended
 Rated Btu/h: 24,000 - 42,000
 SEER Range: 17.6 - 21.2
 HSPF Range: 10.0 - 10.8



PLA-A12, 18, 24, 30, 36, 42 - Ceiling Cassette
 Rated Btu/h: 12,000 - 42,000
 SEER Range: 21.0 - 27.0
 HSPF Range: 9.3 - 12.8



PEA-A12, 18AA; PEAD-A24, 30, 36, 42 - Horizontal Ducted
 Rated Btu/h: 12,000 - 42,000
 SEER Range: 13.8 - 14.3 (PEA)
 16.1 - 21.1 (PEAD)
 HSPF: 9.9 - 10.8

P-SERIES FEATURES

- ▶ INVERTER Technology
- ▶ Individual Comfort Control
- ▶ Quiet Operation
- ▶ Ductless and Ducted Models
- ▶ Wired and Wireless Remote Controls
- ▶ Choice of Indoor Unit Styles
- ▶ Robust Cabinet Design



CONTROLS

COMMERCIAL AND INSTITUTIONAL



PAR-CT01MAU-SB
 Touch MA
 Touch Screen Controller



PAR-33MA
 Wired MA
 Remote Controller



TC-24B
 Centralized Touch Screen Controller



AE-200A
 Centralized Controller



PAR-U01MEDU-K
 SmartME LCD
 Touch Screen Controller



PAC-YT53CRAU
 Simple MA
 Remote Controller



DC-A210
 Advanced
 HVAC Controller



PAC-YG66DCA
 Digital In/Digital Out Board



EW-50
 Central Controller and Expansion Controller



DC-8000
 Centralized Building Controller



LMAP04U-E
 LonWorks® Gateway



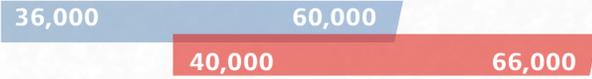
P-SERIES OUTDOOR UNITS

COOLING

HEATING



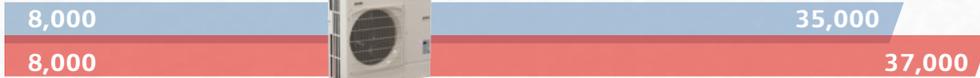
PUMY (S-Series) - **Heat Pump** / up to 12 indoor units



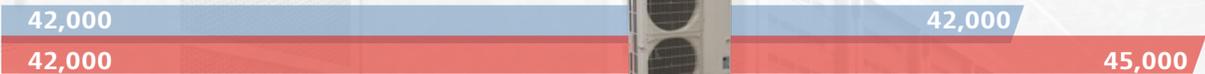
P-Series - **PUY-A12, A18, A36, A42NKA7** Up to 27.0 SEER



P-Series - **PUZ-A12, A18, A36, A42NKA7** Up to 27.0 SEER / Up to 12.8 HSPF



P-Series - **PUY(Z)-A24, A30NHA7** Up to 24.2 SEER / Up to 11.6 HSPF

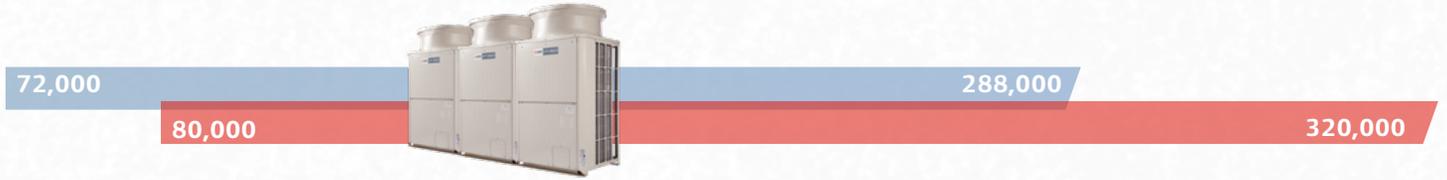


P-Series H2i[®] - **PUZ-HA30, 36NHA4** Up to 17 SEER / Up to 10.4 HSPF

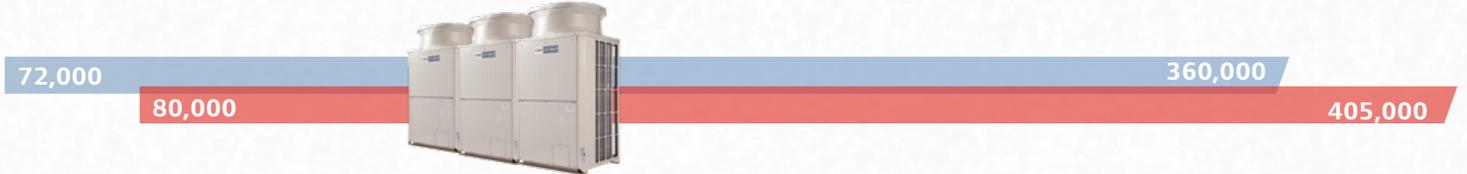


CITY MULTI® OUTDOOR UNITS

R2-Series - **PURY PxxT/Y(S)LMU Heat Recovery** up to 50 indoor units



Y-Series - **PUHY PxxT/Y(S)LMU Heat Pump** up to 50 indoor units



R2-Series H2i® - **PURY-HPxxT/Y(S)KMU Heat Pump**



Y-Series H2i - **PUHY-HPxxT/Y(S)JMU Heat Pump**



WR2-Series (Water-source) - **PQRY-PxxT/Y(S)LMU Heat Recovery**



WY-Series (Water-source) - **PQHY-PxxT/Y(S)LMU Heat Recovery**



* M-Series, P-Series: Performance Range, CITY MULTI: Nominal Capacity. Standard rating conditions.

This chart is for general guidance only to illustrate the range of performance capabilities available from M-Series, P-Series, CITY MULTI product lines. Please consult full product specifications for details. Specifications are subject to change without notice.

COMMERCIAL

SPLIT-DUCTLESS AND DUCTED

PKFY-P-NBMU-E2

06
PKFY-P-NHMU-E2
 08, 12, 15, 18
PKFY-P-NKMU-E2
 24, 30
 Wall-mounted
 Nominal Btu/h: 6,000 - 30,000



PLFY-P-NFMU-E (2x2)

05, 08, 12, 15, 18
 4-Way Ceiling Cassette
 Nominal Btu/h: 5,000 - 18,000



PLFY-P-NEMU-E (3x3)

08, 12, 15, 18, 24, 30, 36, 48
 4-Way Ceiling Cassette
 Nominal Btu/h: 8,000 - 48,000



PMFY-P-NBMU-ER5

06, 08, 12, 15
 1-Way Ceiling Cassette
 Nominal Btu/h: 6,000 - 15,000



PEFY-P-NMAU-E3

06, 08, 12, 15, 18, 24, 27, 30, 36, 48, 54
 Ceiling-concealed
 (ducted, medium static)
 Nominal Btu/h: 6,000 - 54,000



PEFY-P-NMSU-ER2

06, 08, 12, 15, 18, 24
 Ceiling-concealed,
 (low-profile ducted),
 Nominal Btu/h: 6,000 - 24,000



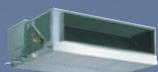
PEFY-P-NMHU-E2

15, 18, 24, 27, 30, 36, 48, 54
 Ceiling-concealed
 (ducted, alternate high-static)
 Nominal Btu/h: 15,000 - 54,000



PEFY-P-NMHSU-E

72, 96
 Ceiling-concealed
 (high-static)
 Nominal Btu/h: 72,000 - 96,000



PCFY-P-NKMU-ERT

15, 24, 30, 36
 Ceiling-suspended,
 Nominal Btu/h: 15,000 - 36,000



PPFY-P-NEMU/NRMU-E

06, 08, 12, 15, 18, 24
 Floor-Standing (exposed/concealed)
 Nominal Btu/h: 6,000 - 24,000



Hydronic Heat Exchangers

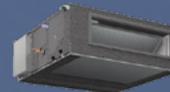
PWFY-P36/72NMU-E-AU-Hex Unit
 PWFY-P36NMU-E-BU Booster Unit
 Nominal Btu/h: 36,200 - 72,000



100% Outdoor Air

PEFY-AF1200CFM/PEFY-AF1200CFMR

Nominal (Cooling) Btu/h: 112,000
 Nominal (Heating) Btu/h: 61,400



PVfy-P-NAMU-E

12, 18, 24, 30, 36, 48, 54
 Concealed-ducted Vertical/Horizontal Air Handler
 Nominal Btu/h: 12,000 - 54,000



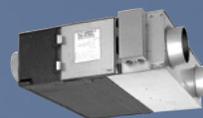
CITY MULTI® VRF ZONING SOLUTIONS

CITY MULTI FEATURES

- ▶ INVERTER Technology
- ▶ Zone Control
- ▶ Individual Comfort Control
- ▶ Design Flexibility
- ▶ Quiet Operation
- ▶ LonWorks® / BACnet® Interfaces
- ▶ Simultaneous Cooling and Heating (R2- and WR2-Series)

ENERGY RECOVERY VENTILATORS (ERVs)

Model	CFM
LGH-F300RX5-E1	300
LGH-F470RX5-E1	470
LGH-F600RX5-E1	600
LGH-F1200RX5-E1	1,200





The Solution for All Building Applications

The needs of your building dictate the type of HVAC system required. The flexibility and efficiency of VRF systems make them an excellent choice for virtually any application.

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For more information visit
www.trane.com/ductless