

THE NEW ECODAN R290 CAHV-Z COMMERCIAL AIR SOURCE HEAT PUMP

ecodan® **R290**

**SUSTAINABLE
APPROACH**

**SCALABLE
SOLUTIONS**

**RELIABLE
AND ROBUST**

The new Mitsubishi Electric Ecodan CAHV-Z air source heat pump utilises ultra-low GWP R290 refrigerant, offering a robust, ultra-low carbon system for the provision of:

**SANITARY
HOT WATER**

+

**SPACE
HEATING**

**ULTRA
LOW
GWP**

**R290 REFRIGERANT (GWP 0.02)
AND REDUCED EMBODIED CARBON**

HELPS MEET
F-GAS
REGULATIONS



AND
CSR
TARGETS

SUPPORTS THE
TRANSITION TO
**LOW-CARBON
HEATING
& COOLING**



SUITABLE FOR WIDE RANGE OF COMMERCIAL APPLICATIONS, INCLUDING:



NEW BUILD



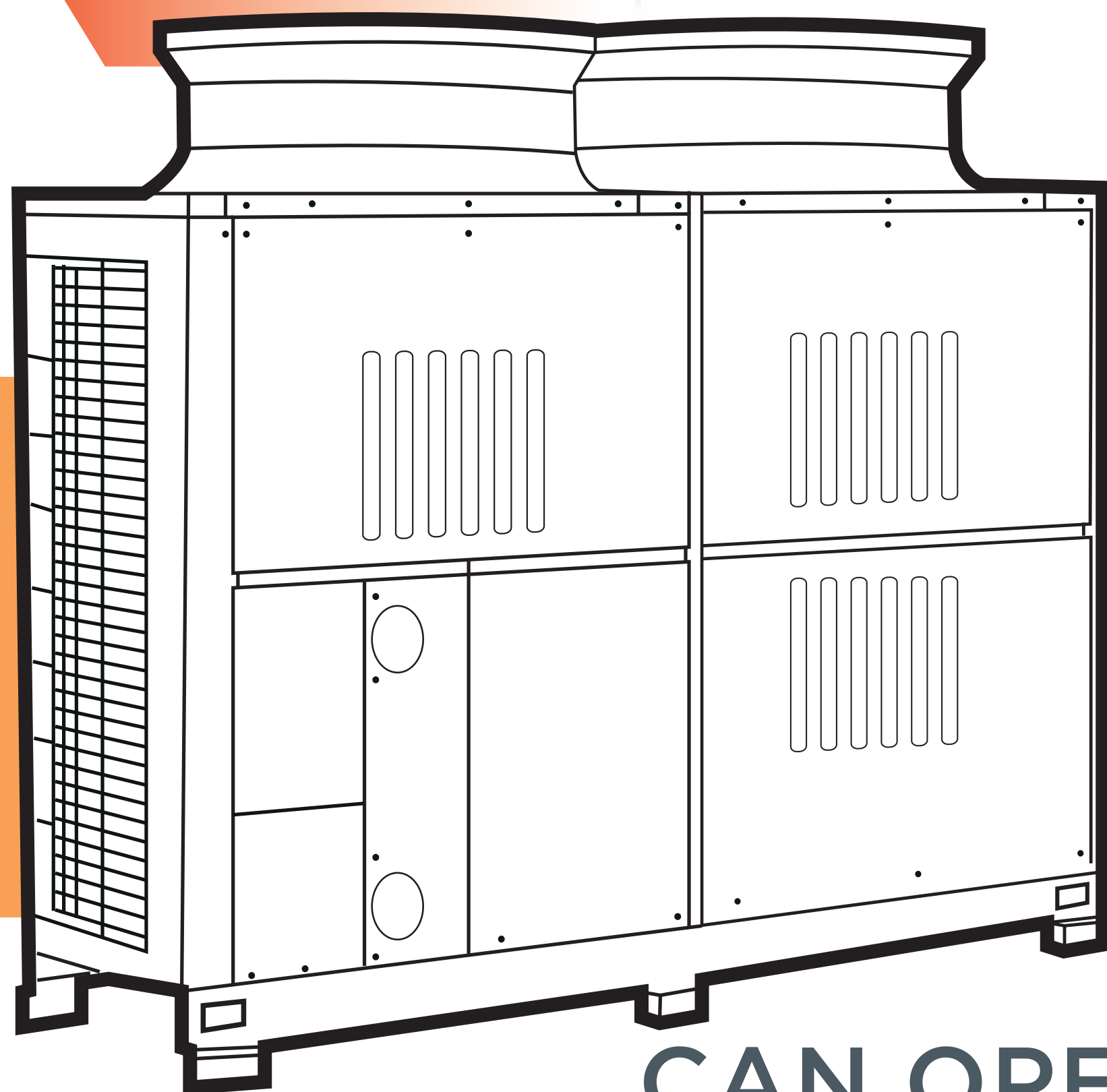
HOSPITALS



SCHOOLS



RETROFIT

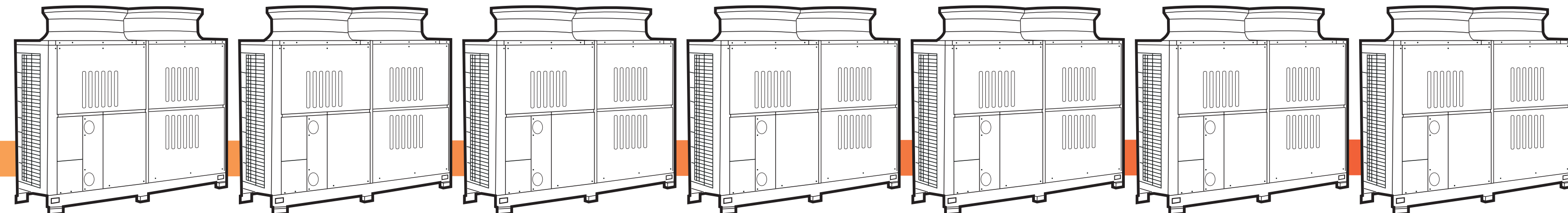


40kW UP TO 280kW*

**INNOVATIVE
DESIGN
FLEXIBLE IN
APPLICATION**

CAN OPERATE
INDEPENDENTLY
OR AS
PART
OF A **MULTIPLE
UNIT SYSTEM**

**CASCADE
& ROTATION
BUILT IN AS
STANDARD**



**MULTIPLE UNIT CASCADE CONTROL UP TO 280kW*
CAPACITY PROVIDES DESIGN FLEXIBILITY**

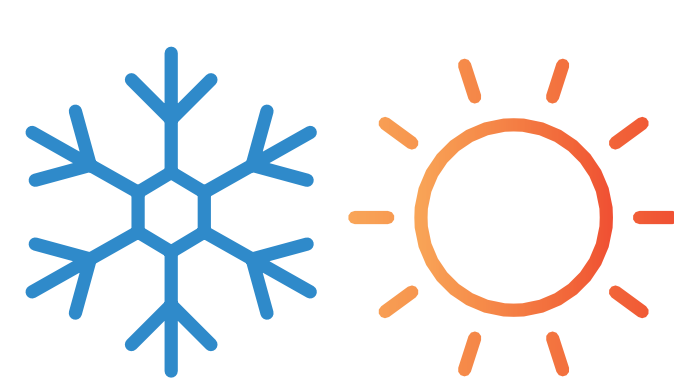
A 7-UNIT SYSTEM
ALLOWS INCREMENTS OF
CAPACITY ALL THE WAY UP TO

280 kW*
*AT NOMINAL CONDITIONS A7W45

ABILITY TO
**CASCADE
AVAILABLE
UNITS**
ON AND OFF TO
MEET THE LOAD
REQUIREMENTS
OF A BUILDING

**PERFECTLY SET UP TO RELIABLY GENERATE
SUSTAINABLE SPACE HEATING
& HOT WATER ALL YEAR ROUND**

HIGH-TEMPERATURE
HEATING PERFORMANCE
ACHIEVES
75°C
OUTLET TEMPERATURE
DOWN TO -15°C
ambient temperature for
continuous heating provision



HIGH SEASONAL
EFFICIENCY WITH A
SCOP >4
(SEASONAL COEFFICIENT
OF PERFORMANCE)

40Pa
**EXTERNAL STATIC
PRESSURE**
AND ABILITY TO APPLY
ACOUSTIC ATTENUATION

LOW NOISE MODE



REDUCING SOUND PRESSURE
LEVEL (SPL) BY 5dBA



WATER FLOW TEMPERATURES FROM
24°C TO 75°C WITHOUT BOOST HEATERS,
RESULTS IN COST AND ENERGY SAVINGS



EASY INSTALLATION & LOW MAINTENANCE



**RAPID DEFROST
OPERATION**
maintains heat output
and maximises system
uptime during cold
weather



**ANTI-SIMULTANEOUS
DEFROST CONTROL**
prevents full system
shutdown during defrost
cycles, ensuring continuous
heating delivery

R290

**INTEGRATED R290
SAFETY FEATURES -**
Built-in leak detection and an
explosion-proof relay support
safe, compliant operation
alongside peace of mind



HERMETICALLY SEALED
MONOBLOC DESIGN REQUIRES
ONLY **WATER & ELECTRICAL**
CONNECTIONS



SCAN TO FIND
OUT MORE

For further information please visit:
les.mitsubishielectric.co.uk



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Living Environmental Systems UK



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