



ecolite

AIR COOLED

Ecolite Packaged Units



temperzone
climate innovations

Ecolite
Air-Cooled Package

● Heating Capacity
25kW - 55kW

● Cooling Capacity
29kW - 60kW



Features

ecolite

Ecolite Packaged units
(29kW - 60kW)

R32



Fixed Speed Compressors
Delivers capacity as a single stage. OPA 441-591 two stages with BMS control.



EC Plug Fan
High static plug fans that can be externally controlled via 0~10VDC or BMS command



Variable Speed Fans
Axial Condenser fans with variable speed setting



Low GWP Refrigerant
R32 refrigerant has a significantly lower GWP than R410A



Intelligent Unit Controller
Ensures the unit runs at its optimum efficiency and provides system operation data



Wide Temperature Operating Range
From -10°C to +50°C ambient



EEV Systems
EEV offers optimum control of superheat for effective control



Economy Cycle
Optional economy cycle and fresh air for reduced power consumption in shoulder seasons



BMS
*BACnet™ or Modbus via RS485 (or TCP/IP option)

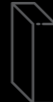
*BACnet is an optional accessory



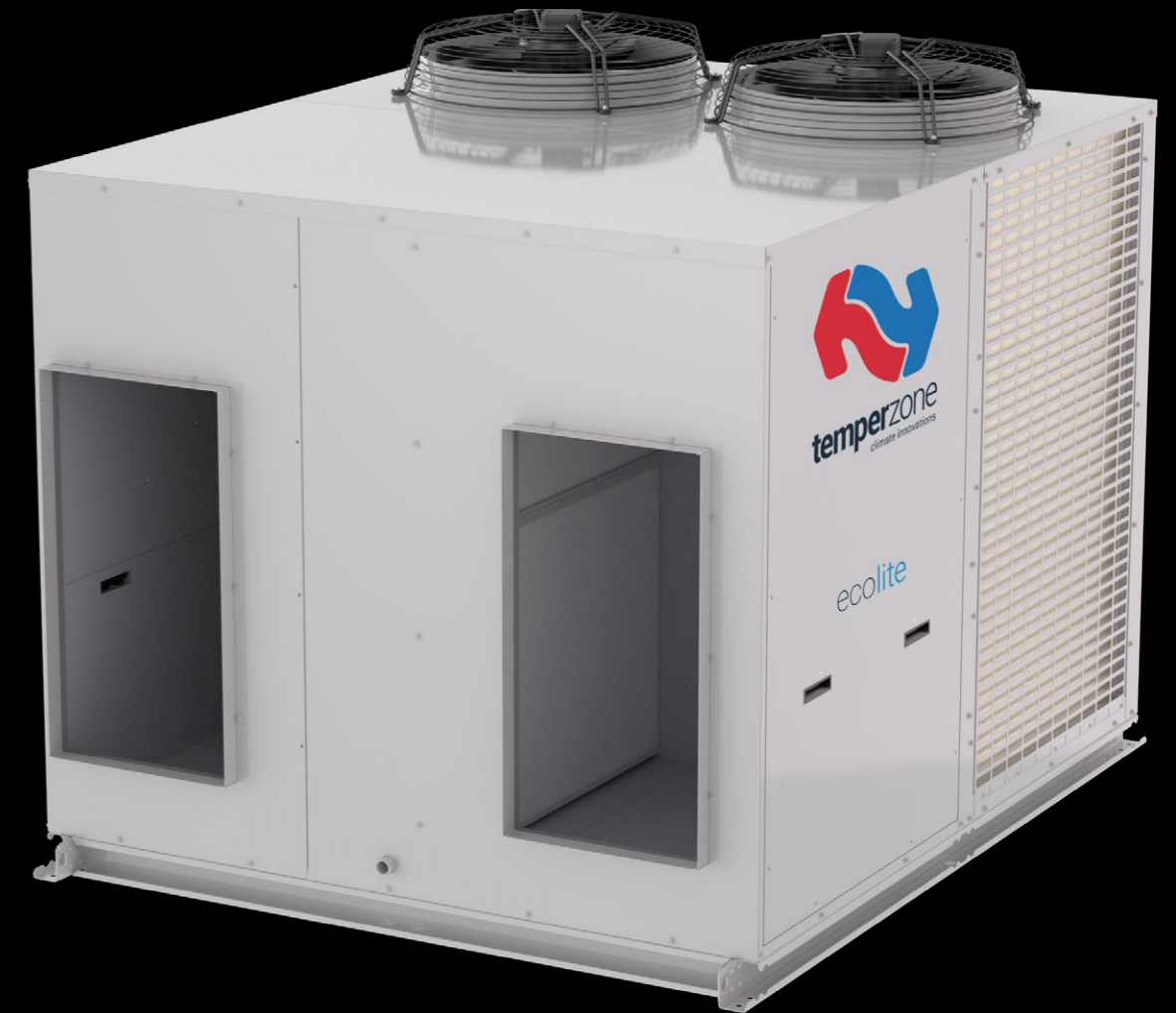
Corrosion Resistant Design
Marine grade pretreatment and polyester powder coated galvanised steel, inside and out



Epoxy Coated Coil
Epoxy coated coil protection for superior corrosion resistance



Foam Insulation
Closed cell foam insulation ensuring no particles are introduced into the air stream



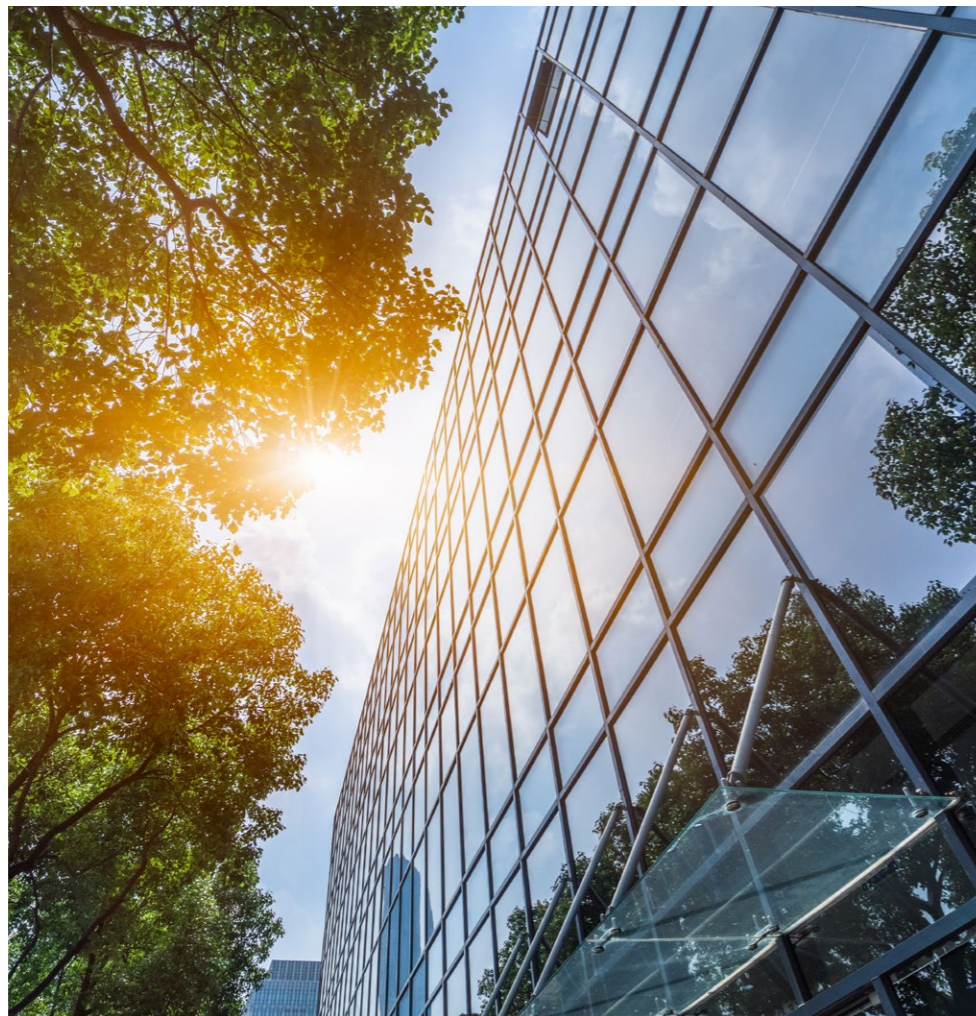
Lower Global Warming Potential Air Conditioning

Lower global warming potential

With a smaller refrigerant charge and a GWP of 675*, OPA Ecolite R32 refrigerant units result in a 72-80% reduction in overall GWP per kW of cooling or heating when compared to R410A systems (GWP 2088*).

Reducing future costs

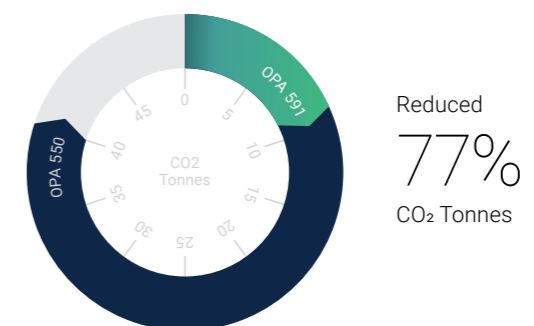
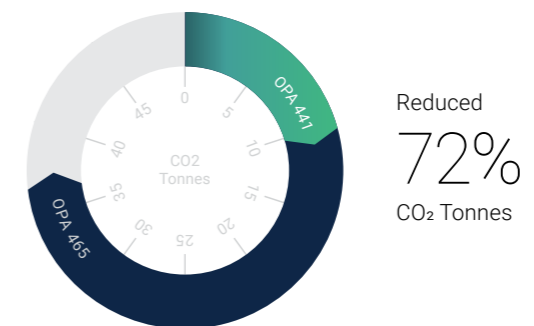
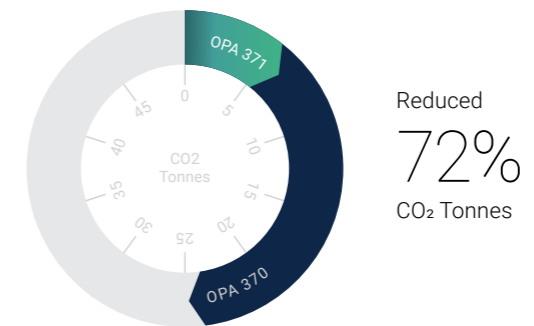
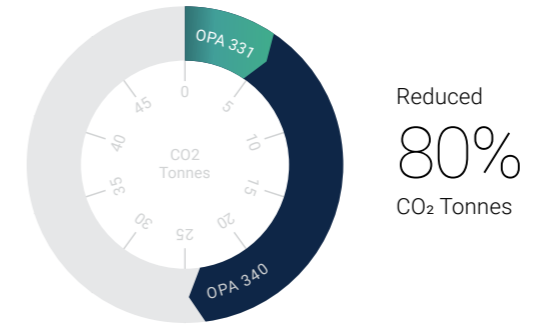
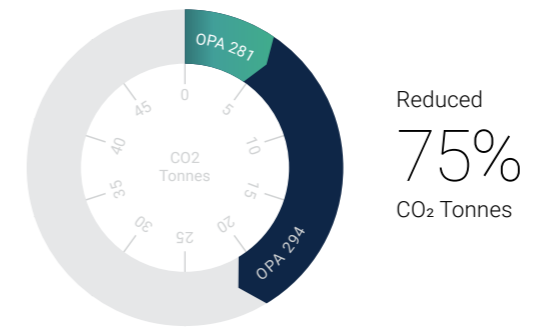
As higher GWP refrigerants face increasing cost due to emissions tax levies the specification of R32 systems will represent a significant reduction in the future costs associated with owning and maintaining these systems.



*AR4 Standard

Potential Carbon Emissions attributed to refrigerant (CO₂ Tonnes)

- Older Model
- Ecolite



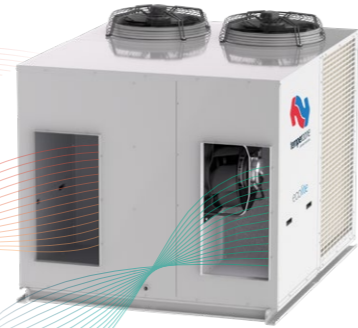
Handing Options

Ecolite units are available in horizontal airflow as standard or opposite hand only

Standard Hand
Horizontal Discharge



Opposite Hand
Horizontal Discharge



Economiser Cycle option*
The Economy Cycle presents significant energy savings. When the outside ambient air is below set point required, the compressor is cycled off, outside air dampers open, and the supply air fan continues to run, bringing cool air in from outside.

*Controls by others

Extreme weather operation

Designed for the harshest conditions these R32 packaged units are designed to operate in ambient temperatures from -10°C to 50°C to ensure you're always comfortable, whatever the weather.

Control Options



InnoTouch controller*, a modern wall-mounted interface designed to elevate usability and system management across a wide range of Temperzone units.

Developed with a focus on simplicity and practicality, the innoTouch controller delivers a fast, smartphone-like interface that allows users to effortlessly manage temperature settings, modes, and schedules.

Backwards compatible with most systems with Temperzone's UC8 controller.



***Not compatible with economiser control if required**

Features

- Full colour touchscreen display
- 7-day / 365-day scheduling
- Multiple modes including Cool, Heat, Fan Only and Dual set point
- User access management with PIN-code protection
- Ability to lock settable functions
- Configurable override timer

- Dead Band settings
- Onboard temperature sensor with optional remote sensor
- Fault codes and system error logs for quick diagnostics
- Service timers and maintenance reminders
- Three-speed indoor fan control and Auto
- Auto-restart functionality after power failure

TZT-100

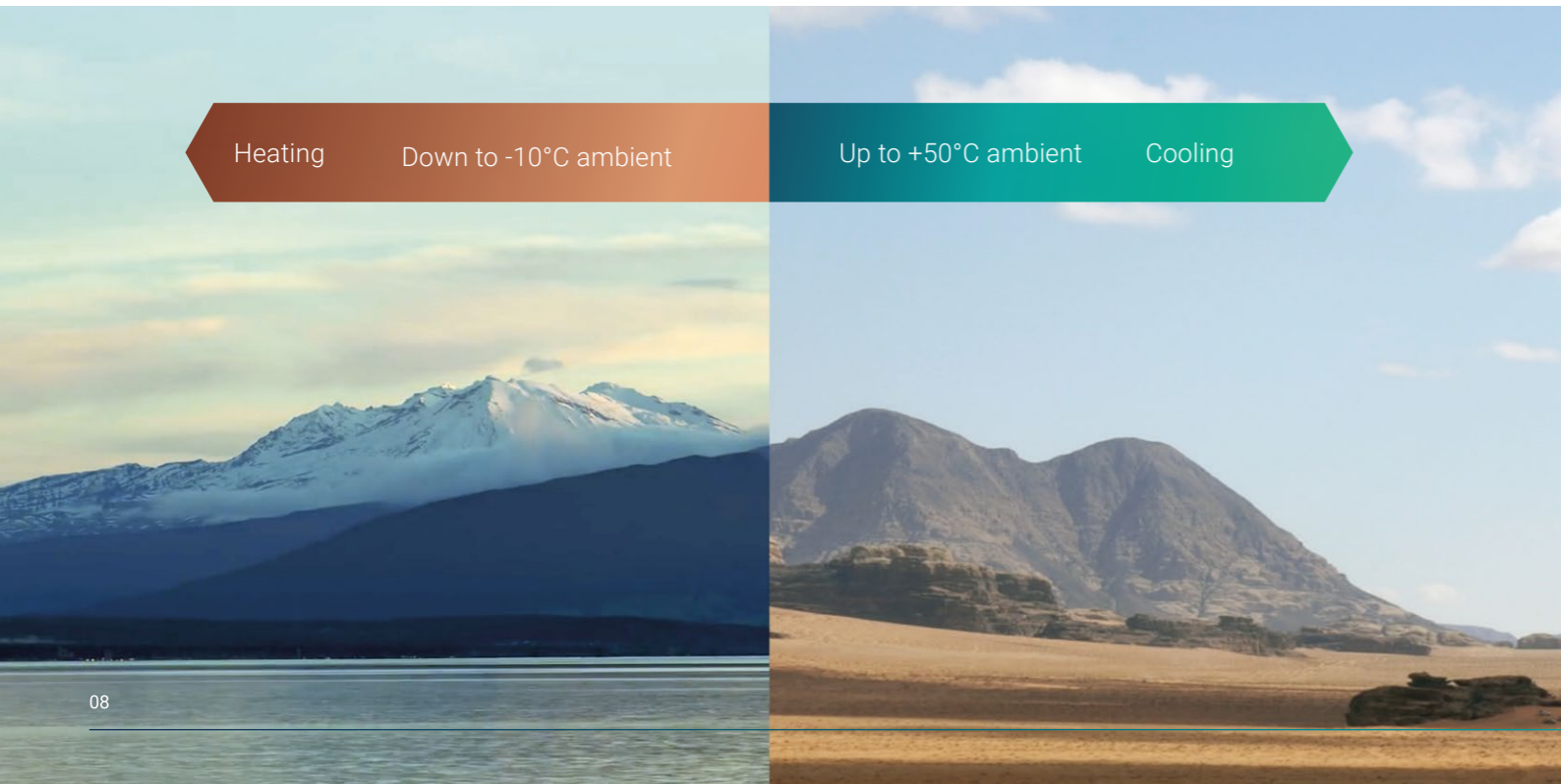
Temperzone's TZT-100 thermostat is an advanced controller suited to commercial environments. It delivers comprehensive control for your system not available with other thermostats.



Features

- Modes – cool / cool-dry / heat / auto-dry / auto
- Set airflow - auto / low / med / hi (customisable)
- Key board and temperature locks
- 7 Day programmable time clock
- Set temperature: 5°C to 50°C at 0.5°C increments

- Remote sensor inputs
- Programmable occupancy inputs
- On demand override count down timer up to 12hrs
- Filter monitor option (by hours)
- Continuous or Intermittent fan operation



Ecolite OPA Specifications

Model	OPA 281	OPA 331	OPA 371	OPA 441	OPA 591
Total (Gross) Capacity kW*					
Cooling	28.8	34.1	38.2	46.2	59.8
Nett (Rated) Capacity kW*					
Cooling	28.2	33.0	37.0	45.1	57.7
Heating	25.3	29.8	36.2	41.6	54.7
EER/COP*					
EER / AEER * Cooling	3.43 / 3.42	3.28 / 3.26	3.22 / 3.20	3.44 / 3.42	3.30 / 3.28
COP / ACOP * Heating	3.65 / 3.63	3.46 / 3.43	3.53 / 3.50	3.77 / 3.74	3.62 / 3.61
Power					
Power Supply	3 Phase 400 V a.c. 50 Hz + N + E				
Running Amps (A/ph)	13.5 / 14 / 16.5	19.5 / 15.5 / 16	17 / 17.5 / 22	20 / 21 / 26	26 / 28 / 34
Max Amps (A/ph.)	17.5 / 18 / 21	24 / 19.5 / 20	23 / 24 / 28	27 / 28 / 32	34 / 37 / 42
Unit Controllers					
Controller	UC8 (x1)		UC8 (x2)		
Ambient Operating Range					
Cooling / Heating (°C)	-10 ~ 50 / -10 ~ 20				

Model	OPA 281	OPA 331	OPA 371	OPA 441	OPA 591
Compressor					
Type	Fixed Scroll (x1)		Fixed Scroll (x2)		
Refrigerant	R32				
Fans					
Indoor	Backward Curved EC Plug				
Airflow (l/s)					
Nominal**	1400	1850	1910	2470	3010
Range	820 ~ 2230	1100 ~ 2290	1080 ~ 2290	1380 ~ 3520	2010 ~ 3750
Noise Data***					
SPL @ 3 Metres (dBA)	59.2	68.0	63.0	60.5	61.6
Overall Dimensions (mm)					
Length	1750	1900	1900	2340	2340
Width	1486	1671	1671	1950	1950
Height	1572	1567	1567	1835	1994
Weight (kg)					
Nett	456	491	524	740	805
Shipping	499	544	577	778	843

Notes:

- * To AS/NZS 3823 conditions
- ** Supply Airflow at Nominal Conditions
- *** Sound Pressure Level (SPL) in decibels re 20 µPa



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