



Introducing the **AQUA⁴**

Polyvalent air cooled heat pump chiller



COOLING CAPACITY: 50 → 320 kW
HEATING CAPACITY: 50 → 340 kW

More thermal comfort with less energy consumption.
A *unique* concept to reduce our environmental footprint.

- 2 or 4 Pipe high efficiency system
- Balance cooling and heating needs simultaneously & independently
- Recovery and production of hot water all year round
- High energy ratio values - with low-noise characteristics
- Integrated hydraulic module with integrated buffer tank

AQUA⁴

LENNOX

KEY FEATURES

Conserving and optimising energy consumption

- High energy ratio at part load and full load
- Constantly balance heating and cooling needs to obtain maximum Energy Efficiency Ratios
- Simultaneous or independent demands for heating and cooling
- 100% heat recovery at any conditions
- Advanced programmable control with local display

Quieter unit

- -8 dB(A) noise level reduction vs traditional heat pump in standard, -12 dB(A) in option
- Innovative hybrid structure of fan blades
- Unique sound proof cabinet enclosing all components to reduce radiated sound levels
- EC technology on fans in option



Secured operating map as standard

- Winter cooling operation down to -15°C ambient.
- Heating operation down to -10°C ambient with 45°C outlet water temperature
- Heat recovery or production of hot water temperature from 25°C to 55°C
- High ambient up to 45°C

Defrost without impacting comfort

- Hydrophilic treatment on coil
- Dynamic control on defrost
- Circuits defrost completely independent
- Integrated high content water tank



MAIN OPTIONS

Main options - 4 Pipes

- Hydraulic module with LP/HP pump(s) for reversible/cold user
- Hydraulic module with LP/HP pump(s) for recovery/hot user
- Water tank (200 -> 765 litres)
- High efficiency EC fans
- Antifreeze protection heat exchangers and hydraulic components
- Anti-corrosion coil treatment
- Refrigerant LP/HP gauges

- Condenser coil protection guard
- Soft starter / power factor correction
- Spring anti-vibration mounts
- Rubber anti-vibration mounts
- Supplied 4-way water flow inversion valve
- ModBus®, LonWorks®, BacNET® communication interfaces
- pCOWeb interface board
- Water filters

AQUA ⁴	AAH	41	51	61	71	81	94	104	124	144	164	194	214	244	274	294	324
Cooling capacity (water: 12/7°C, air: 35°C)	kW	50	54	65	71	81	98	107	129	142	162	181	216	236	259	296	314
EER		3.1	3.0	3.2	3.1	3.1	3.0	2.9	3.0	2.9	3.0	2.7	2.9	2.8	2.8	2.9	2.7
Heating capacity (air: 7°C, hot water: 40/45°C)	kW	52	57	68	75	85	103	114	136	150	170	195	229	254	280	317	341
COP		3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.0	3.0	3.1	3.1	3.1	3.2	3.2	3.3	3.1
Cooling capacity (cold water: 12/7°C, hot water: 40/45°C)		49	54	64	70	82	98	108	126	139	160	184	218	243	263	302	327
Heating capacity (cold water: 12/7°C, hot water: 40/45°C)		63	70	82	91	106	127	140	163	181	207	239	282	313	340	388	423
Global sound power level - Standard	dB(A)	80	80	81	81	81	82	82	84	84	85	85	86	86	86	87	87
Global sound power level - Low noise		73	73	75	75	75	77	77	79	80	80	80	82	82	82	83	83

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australia
13 23 50

lennoxau.com.au

new zealand
0800 653 330

lennoxnz.co.nz

