

Lennox Neosys™

air-cooled liquid chiller (200-1000kW)



Superior Efficiency | Latest Technology

Wide Application Range | Easy Installation & Service

Neosys™ is another innovation from Lennox - the name you can trust in cooling. Neosys uses scroll compressors, microchannel condensers and refrigerant R410A for superior efficiency and reliability. With its smart aesthetics and low noise levels, Neosys is a discrete liquid chiller solution that is delivered to you ready to go.

- Suitable for most chilled liquid applications from +20°C inlet to +5°C outlet (-10°C glycol version available)
- Utilises compliant scroll compressor technology
- R410A refrigerant
- Microchannel condensers for improved reliability and a 30% reduction in refrigerant charge
- Smart acoustics utilising inverter fans
- Hydraulic options available
- Low unit height (< 2m)
- Graduated capacity control to better meet the required capacity



Our company is a member of the Eurovent certification Program. The Neosys™ Lennox chillers are tested and rated in accordance with Eurovent certification program.



Lennox Neosys™ air-cooled liquid chiller

(200-1000kW)

Neosys™ - Cooling only	NAC	200	230	270	300	340	380	420	480	540
Cooling capacity (water: 12/7°C, air: 35°C)	kW	208	235	273	307	346	387	432	473	531
EER High Efficiency		CLASS A EER ≥ 3.1								
EER		2.9	2.8	2.6	2.9	2.8	2.6	2.9	2.8	2.6
ESEER High Efficiency		ESEER ≥ 4.4								
ESEER		4.2	4.0	4.0	4.0	4.2	3.9	4.2	4.0	4.0
Global sound power level High performance (900 rpm)	dB(A)	89	89	89	91	91	91	92	92	93
Global sound power level Super Quiet (630 rpm)	dB(A)	82.4	83	84	85	85	86	86	87	88

Neosys™ - Cooling only	NAC	600	640	680	760	840	960	1080
Cooling capacity (water: 12/7°C, air: 35°C)	kW	605	627	692	775	864	946	1063
EER High Efficiency		≥ 3.1	-	-	-	-	-	-
EER		2.8	2.8	2.8	2.6	2.9	2.8	2.6
ESEER High Efficiency		≥ 4.4	-	-	-	-	-	-
ESEER		4.2	4.2	4.2	3.9	4.2	4.0	4.0
Global sound power level High performance (900 rpm)	dB(A)	94	94	94	94	95	95	96
Global sound power level Super Quiet (630 rpm)	dB(A)	89	89	88	89	89	90	91

Main Options	NAC
Hydraulic module with fixed speed pump(s) (up to size NAC 640)	✓
Hydraulic module with inverter pump(s) (up to size NAC 640)	✓
Partial heat recovery	✓
Free-cooling coil, one or two "V" (up to size NAC 540)	✓
Winter operation down to -20°C ambient temperature (EEV)	✓
Brine operation down to -10°C leaving water temperature	✓
Thermoguard™ heavy anti-corrosion coil treatment	✓
Rear coil guard	✓
Soft starter / power factor correction / energy meter	✓
BE 50 extension board for remote control	✓
ModBus®, Lon®, BacNET®, Adalink™ communication interfaces	✓



Key Features

High Efficiency Microchannel Heat Exchanger



- Cooling Only
- Improved System Efficiency
- Better Corrosion Resistance (x3)
- Reduced refrigerant charge
- Reduced fouling
- Light weight
- Mechanical resistance
- 3 year warranty ¹

Inverter Fans / Active Acoustic Attenuation System



- Noise reduction -6 dB(A)
- External rotor technology
- Inverter drives
- OWLET™ fan blades
- Adjustable acoustic set-point (day/night)
- Ceramic bearings for improved reliability
- 3 year warranty ¹

CLIMATIC™ Control



- Advanced microprocessor control
- 4 scheduling time zones per day
- PI control of the water temperature
- Adjustable acoustic set-point
- Performance or Quiet mode selection
- Low/High refrigerant pressure readings
- Water set-point offset based on OAT ²
- Energy metering
- Dynamic defrost on heat pump
- Master/slave or cascade chiller control
- ModBus®, Lon®, BacNET® options

R410A Multi Scroll Compressors



- Improved part load efficiency (ESEER>4)
- Axial and radial compliance
- Improved durability and reliability
- Ease of maintenance
- R410A refrigerant
= no ozone depletion + low GWP
- 3 year warranty ¹

(1) Conditions apply (2) Outside air temperature

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