RESIDENTIAL HYDRONIC HEAT PUMP



41,000 BTU/HR HEATING | 34,800 BTU/HR COOLING

BACKUP BOILER CAPABILITY

COP UP TO 6.0 AT 95°F LWT

SELF CONTAINED MONO-BLOC DESIGN

DELIVERED WATER TEMPS UP TO 149°F

LOW GWP R32 REFRIGERANT

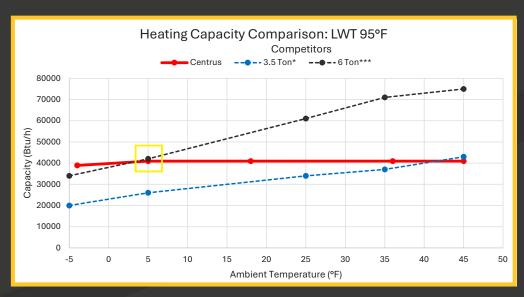




TECHNOLOGY MAINTAINS OUTPUT CAPACITY DOWN TO -4°F



Upholding our reputation for innovation in the commercial and residential hydronic spaces for decades, we are proud to LEAD THE CHARGE once again by bringing you CENTRUS™, Lochinvar's first air-to-water heat pump. ComfortLoch™ technology enables CENTRUS to maintain heating capacity to meet your space heating and domestic hot water needs - even when temps dip as low as -4°F. CENTRUS also features cooling capability to give you an entire system solution from space heating to space cooling to domestic hot water production.



Leading competitors have to practically double the heat pump size*** in order to meet the heating needs for a 5°F design day. CENTRUS with ComfortLoch saves the customers' money because they only buy what they need. A similarly sized* heat pump from the competition simply can't keep up when cold temperatures arrive.





1. DUAL-PIPED HEAT EXCHANGER

Allows the heat pump to maintain heating capacity in low temp conditions

2. EVAPORATOR FAN

ECM and variable speed. Fan changes speed as required to control outlet water temperature.

3. EVAPORATOR

Coated evaporator for enhanced corrosion resistance.

4. VORTEX WATER FLOW SENSOR

Allows for precision flow control.

5. INVERTER ROTARY COMPRESSOR

A quiet, energy-efficient means of accomplishing precise temperature control and provides a longer life span.

6. BASE PAN HEATER

Prevents freezing condensate in low ambient operating conditions.

7. BACKUP HEATING ELEMENT

3 or 6 kW selectable backup heating element.

8. WATER PUMP

ECM and variable speed. The speed of the pump changes to control delivery of water to the system at the required temperature.

9. MAGNETIC FILTER

Prevents metal particulate from circulating to the pump.

10. UNIT CONTROLLER

3.5 inch LCD display, Remote mountable up to 164ft.



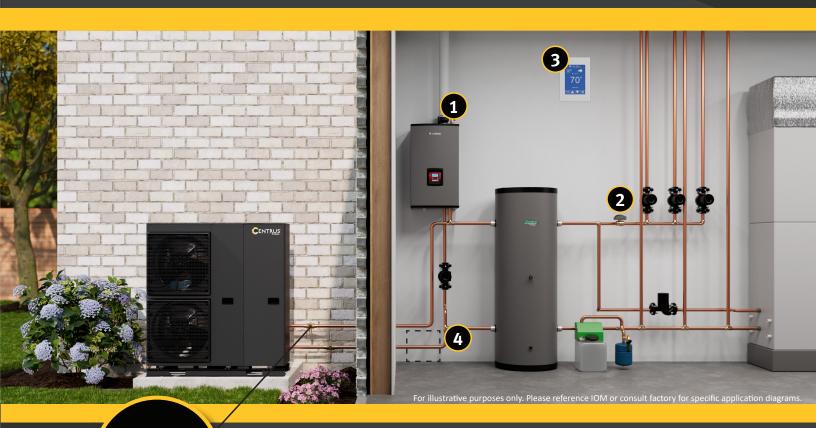
NO ONE BRINGS IT ALL TOGETHER LIKE LOCHINVAR

From a single CENTRUS unit to an entire system package, Lochinvar has a solution to fit customer needs. CENTRUS offers North American standard voltages, making installation and service more streamlined than ever.



Lochinvar provides various backup boilers and tank options, giving customers the ability to create an entire system from a single manufacturer.

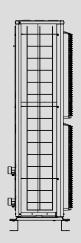
- **1. BACKUP BOILER CAPABILITY:** Advanced settings allow the homeowner to determine exact temperatures for when a backup heat source is needed and also to determine if the backup boiler should run by itself or in parallel with CENTRUS.
- **2. 24V 2-WAY AND 3-WAY VALVE CONTROL:** For systems with space cooling and/or domestic hot water, CENTRUS provides 24V control, enabling installers to use off the shelf accessories.
- **3. 24V EXTERNAL THERMOSTAT:** Use common external thermostats found on North American shelves with 24V external thermostat control.
- **4. 120V EXTRA PUMP OUTPUT:** For installations with extended pipe lengths between CENTRUS and the system or buffer tank, CENTRUS provides 120V output for an extra pump.

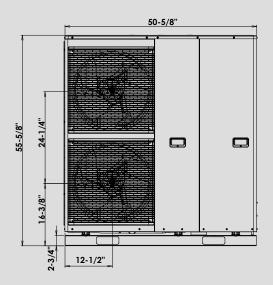


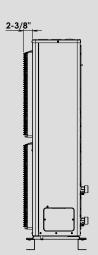
AVAILABLE ACCESSORY

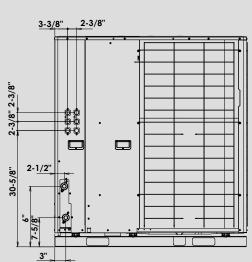
Anti-Freeze Valve - helps protect water circuit in case of power outages.

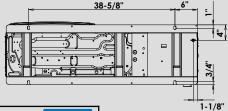












CENTRUS HEAT PUMP



	Cooling			Heating (-4°F - 95°F)*		Water Connections		Power Supply		
Model Number	Capacity Btu/hr (Tons)	EER/SEER	IPLV (kW/kW)	Capacity Btu/hr (Tons)	COP Range	Inlet	Outlet	Voltage	Phase	Ship Wt.(lbs)
RAH040	34,800 (2.95)	9.6 /10.9	4.52	41,000 (3.42)	1.23-6.0	1-1/4" NPT	1-1/4" NPT	208/240V	Single	347

Note - 44°F LWT 54°F EWT @7 GPM & 95°F DB Ambient. *Data is tested in accordance with AHRI 550/590.

Information subject to change without notice. Dimensions shown are approximate and should NOT be used for construction purposes.

STANDARD FEATURES

High Efficiency up to COP of 6.0 ComfortLoch - Capacity Maintaining Technology

ZERO On-site Emissions

Space Heating and Cooling

Low GWP R32 Refrigerant

Mono-bloc Design

Inverter Rotary Compressor

ECM Water Pump

North American Accessories Functionality

24V Thermostat

24V 2-way Valve

24V 3-way Valve 120V Extra Pump =

Field Supplied

Operating range: -4°F to 109°F

3- Temperature Sensors

Buffer Tank Sensor

DHW Tank Sensor Outdoor Air Sensor

Magnetic Filter

Backup Heating Element

2.6 Gallon Expansion Tank

50 PSI Relief Valve

STANDARD CONTROL FEATURES

3.5" LCD Display

Included Temperature Sensor

Remote Mountable up to 164 feet

Password Security

Alternate, Parallel or Advanced Parallel Boiler Operation

Floor Heating Concrete Dry Mode

Energy Consumption Statistics

Holiday Mode with Programmable Resume

OPTIONAL ACCESSORIES

Anti-Freeze Valve



