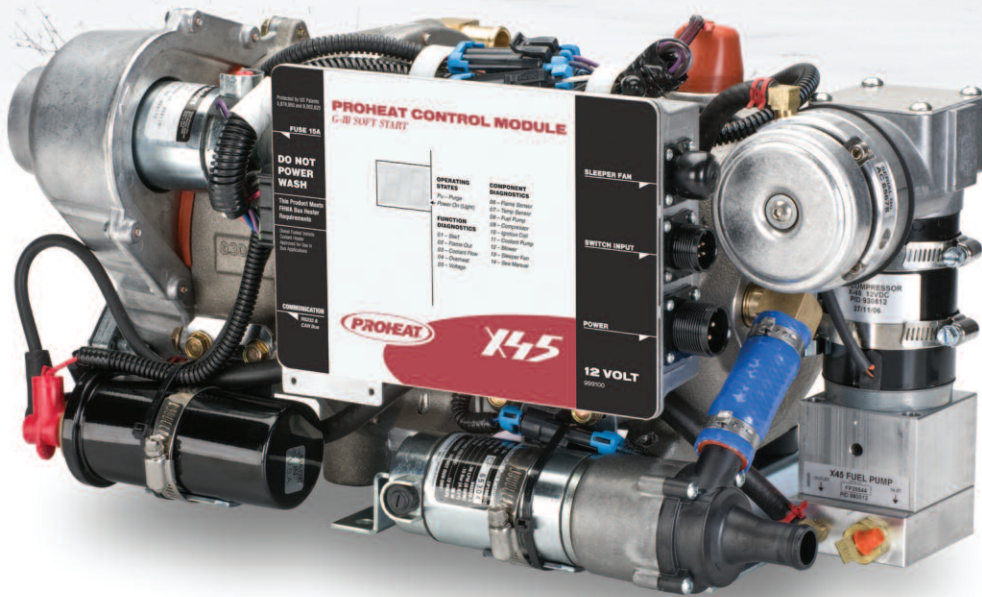




**Y45**

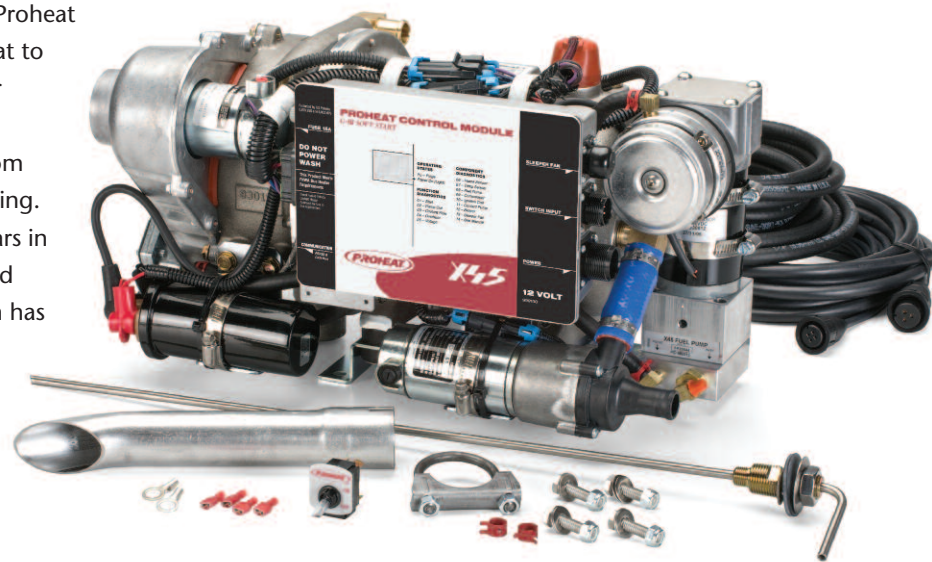
# THE COOLANT HEATER OF CHOICE FOR TRUCKS





## POWERFUL AND RUGGED COOLANT HEATER FOR EASY COLD WEATHER STARTS

Proheat X45 is a powerful, diesel-powered engine pre-heating solution for quick and reliable cold weather starting. An integrated pump circulates heated coolant to warm the engine block, making starting easier and reducing start-up engine wear. Proheat X45 features an onboard control panel that displays heater status, while an optional digital timer for the cab adds convenient timer-based starting of the heater. Proheat X45 can also direct heat to the truck cab for driver comfort, reducing fuel costs and emissions from unnecessary engine idling. With more than 15 years in the field, its rugged and field serviceable design has proven reliable in even the most extreme temperatures.



Proheat X45 with install kit.

## DUAL-PURPOSE AUXILIARY HEATER

Proheat X45 is powerful enough to supply heat for both engine and driver needs. Engine pre-heating helps eliminate problems with cold-weather starts, allowing drivers to depart faster. With the addition of an optional heat exchanger, Proheat X45 can heat the sleeper cab for added driver comfort. And its low amperage design is a small draw on the starting battery, ensuring it is not excessively drawn down when the heater is used.

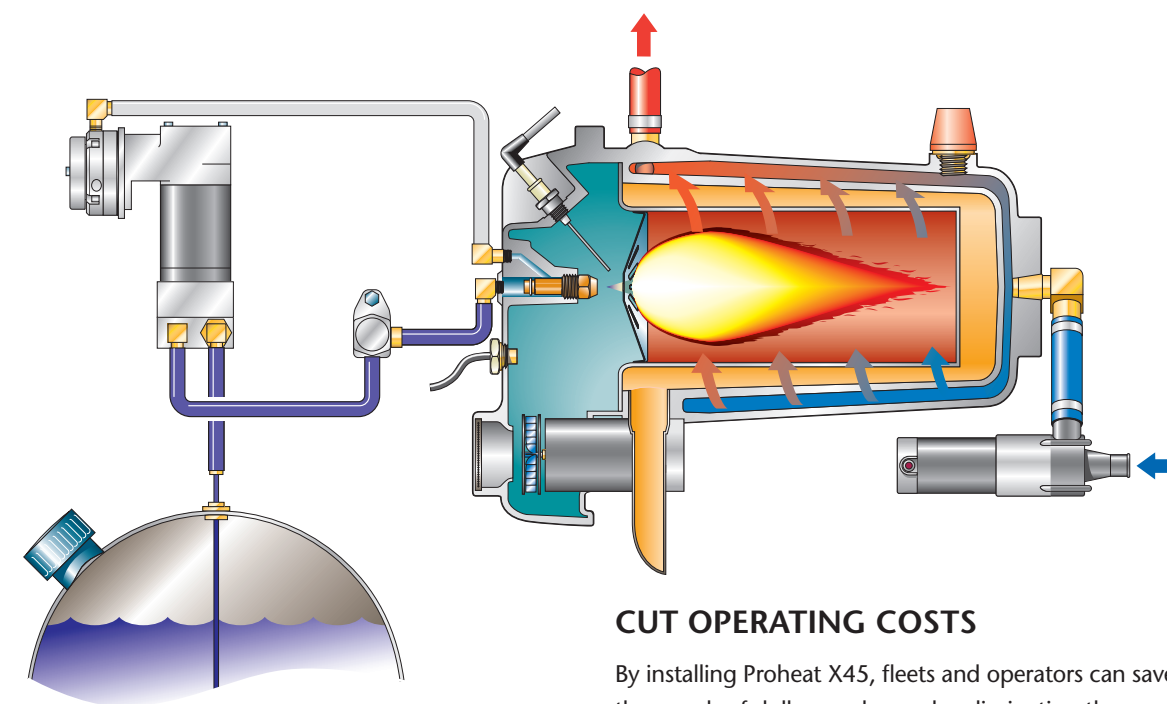
## LOWER EMISSIONS

Proheat X45 helps fleets and operators eliminate excessive idling. Relying on the heater reduces emissions as well as fuel and maintenance costs by eliminating engine hours used to generate heat. Prohibiting idling is also quickly becoming the focus local and federal law makers, as well as a target for local law enforcement.

## SERVICEABLE DESIGN

Proheat X45 was designed with serviceability in mind. A rugged, diamond plate enclosure protects the heater from exposure and provides for quick and easy service access. Major components like the coolant and fuel pumps are easily accessible for inspection or repair to help minimize downtime.

The operational history of the heater is stored for easy transfer to a computer using the X45 Datalink Kit. The Windows-based software downloads time-stamped data from Proheat X45 such as heater status, battery voltage, coolant temperature, as well as error messages. Technicians can use this wealth of information to maintain peak heater performance without taking the time and expense of removing the heater from the truck.



■ Coolant Intake    ■ Combustion Air    ■ Fuel System  
■ Heated Coolant    ■ Exhaust

## EASY HEATER CONTROL

A built-in electronic control panel features 2 x 7 segment LEDs, displaying heater status as well as key function and diagnostic codes. This provides important heater status information for drivers and technicians. The control panel also includes a connection for an easy way to add a thermostatically-controlled fan to heat the sleeper cab.

An optional digital timer can be added to the system so drivers can program the start of the heater up to 7 days in advance. Drivers have the flexibility to start the heater in advance on a specific day, the same time everyday, or even multiple times per day. The timer's surface-mount design fits easily anywhere inside the cab for convenient driver access.



Optional Timer

## CUT OPERATING COSTS

By installing Proheat X45, fleets and operators can save thousands of dollars each year by eliminating the need to idle the truck's engine to prevent engine freezing and to provide heat for driver comfort. Engine idling puts unnecessary hours on the engine, increasing engine wear and overall vehicle emissions. Proheat X45 uses substantially less fuel than an idling truck engine while still keeping both the engine and driver warm.

How many hours do your trucks idle for cab comfort and engine pre-heating in a typical year? Since Proheat X45 burns 90% less fuel than a truck engine, trucks that idle unnecessarily for hundreds of hours will typically pay for a Proheat X45 in about a year. Compare your truck heating needs to the sample fuel and cost savings calculations in Table 1 below.

1 Fuel Used per Hour Idling Truck Engine	1.0 gallons	3.8 litres
2 Fuel Used per Hour by Proheat X45	0.1 gallons	0.4 litres
3 Fuel Savings per Hour Using Proheat X45	0.90 gallons	3.4 litres
4 Heat Required per Year	20 weeks	
5 Heat Required per Week	5 days	
6 Time per Rest Period	8 hours	
7 Total Time per Year Requiring Heat (Line 4 x Line 5 x Line 6)	800 hours	
8 Yearly Total of Fuel Saved Using Proheat X45 (Line 3 x Line 7)	720 gallons	2720 litres
9 Price of Fuel	\$4.00	\$1.058
10 Yearly Total Fuel Costs Saved Using Proheat X45 (Line 8 x Line 9)	\$2880	\$2878

TABLE 1 – Sample Proheat X45 Fuel Savings. Additional savings will be realized from reduced engine wear and maintenance.

## AT A GLANCE

### HEATER FEATURES

- 13kW (45,000 BTU)
- Electronic control panel displays heater status
- Integrated coolant pump
- Mounting options for all truck configurations
- Two year parts and labor warranty

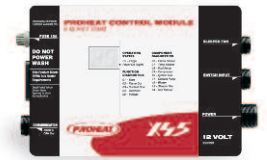
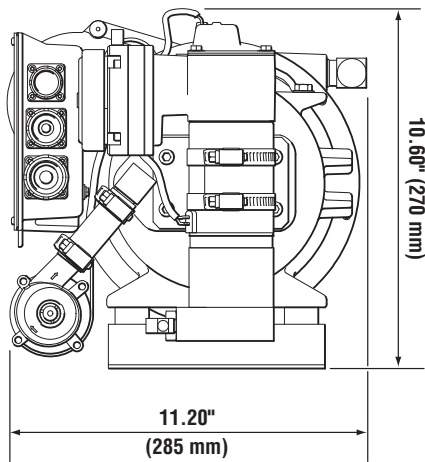
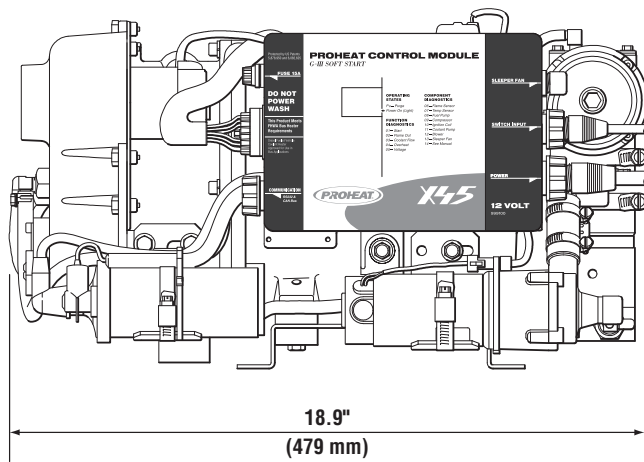
### TIMER FEATURES

- Timed or manual start of X45 heater from inside the truck cab
- Easy-to-read digital display
- Programmable, multi-event 7-day timer
- Surface-mount design

### TWO YEAR WARRANTY

Proheat X45 is backed by a full two year parts and labor warranty and is supported by a nationwide network of Authorized Proheat Dealers.

## SPECIFICATIONS



Electronic Controller

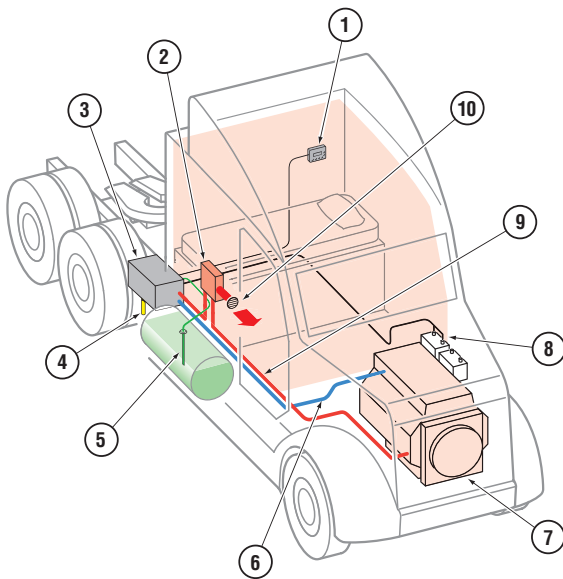


Enclosure (diamond plate)

## ABOUT PROHEAT

Proheat is a global leader in advanced auxiliary heaters. Our customers include aftermarket vehicle dealers and service organizations as well as manufacturers of transport trucks, buses, off-highway, and military vehicles.

Proheat is manufactured by Marine Canada Acquisition Inc. (DBA SEASTAR SOLUTIONS).



- |                             |                  |                         |
|-----------------------------|------------------|-------------------------|
| 1 Timer (Optional)          | 4 Exhaust        | 8 Electrical Connection |
| 2 Heat Exchanger (Optional) | 5 Fuel Pick-Up   | 9 Warmed Coolant        |
| 3 X45 Heater                | 6 Coolant Return | 10 Heated Cab Air       |
|                             | 7 Heated Engine  |                         |

MODEL	X45-12	X45-24
RATING	13 kW (45,000 BTU)	
OPERATING VOLTAGE RANGE	10.0 – 15 VDC	20 – 30 VDC
CURRENT (Nom.)	8.2 A	4.1 A
FUEL CONSUMPTION (average to maximum)	0.1 to 0.45 gal/hr. (0.4 to 1.7 L/hr.)	
COOLANT FLOW	8.0 gal/min. (30 L/min.)	
COOLANT TEMPERATURE (at heater)	150 to 185 °F (65 to 85 °C)	
OPERATING TEMPERATURE RANGE	- 40 to 122 °F (- 40 to 50 °C)	
FUEL TYPES	ULSD, Diesel #1, Diesel #2, Kerosene, Artic, B20	
IGNITION TYPE	Electronic spark ignition	
HEAT EXCHANGER CAPACITY	1 quart (.98 litre)	
WEIGHT heater only with enclosure	40 lb (18 kg) 55 lb (25 kg)	
DIMENSIONS – HEATER (L x W x H)	18.9 x 11.20 x 10.60 inches (479 x 285 x 270 mm)	
DIMENSIONS – ENCLOSURE (L x W x H)	20.2 x 12.3 x 10.5 inches (513 x 313 x 267 mm)	
WARRANTY	Two years parts and labor	

Please Note: Specifications are subject to change without notice.

Proheat is registered trademark of Marine Canada Acquisition Inc.

Dealer:



Designed and Manufactured  
in North America



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