



X45 PLUS

THE COOLANT HEATER OF CHOICE FOR SCHOOL BUSES



POWERFUL AND RUGGED AUXILIARY COOLANT HEATER DESIGNED FOR SCHOOL BUSES

Proheat X45 Plus is a powerful, diesel-powered school bus pre-heating solution for quick and reliable cold weather starting. The heater becomes part of the school bus heating system, supplying added heat for passengers while reducing fuel costs and emissions from unnecessary engine idling. An integrated pump circulates heated coolant to warm the engine block, making starting easier while

reducing start-up engine wear. Proheat X45 Plus features an onboard control panel that displays heater status, while an optional digital timer for inside the bus adds convenient timer-based starting of the heater. The heater also complies with National Highway Traffic Administration standards to ensure maximum safety for bus passengers. With more than 20 years in the field, its rugged and field serviceable design has proven reliable in even the most extreme temperatures.

AT A GLANCE

COOLANT HEATER FEATURES

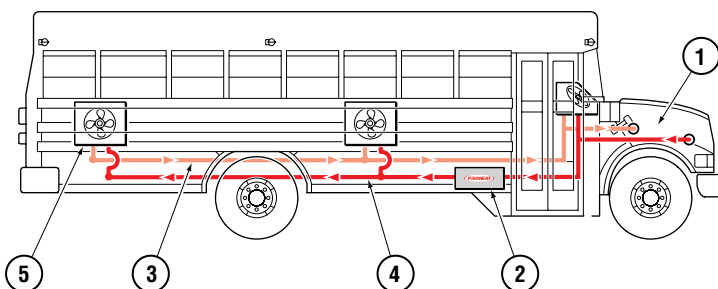
- 45,000 BTU (13 kW)
- Electronic control panel displays heater status
- Integrated coolant pump
- Optional integrated impact switch
- Meets FMCSA bus heater requirements
- Three years parts and labor warranty

NEW FEATURES

- Next generation PCM controller
- J1939 CAN bus
- New operating modes to save battery power and fuel
- USB2.0 Datalink connection
- Field programmable controller



Optional Timer



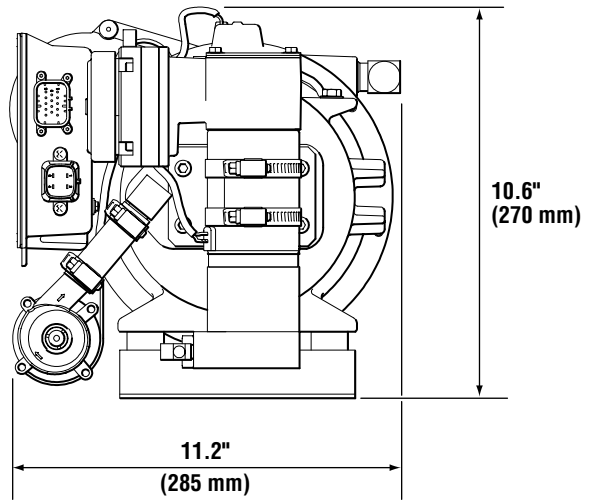
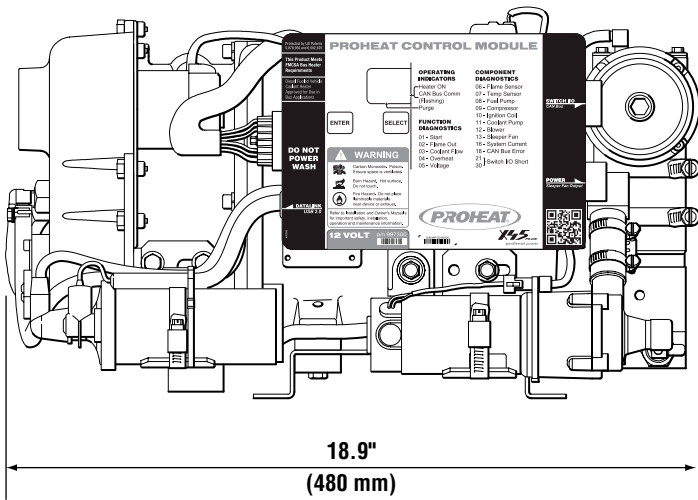
- 1 Engine
- 2 Proheat X45 Plus Heater
- 3 Return to Engine
- 4 Supply from Proheat X45 Plus
- 5 Fan





X45 PLUS

SPECIFICATIONS



MODEL	X45 PLUS
RATING	45,000 BTU (13 KW)
OPERATING VOLTAGE RANGE	10.0 – 15 VDC
CURRENT DRAW	7.5 Amps
FUEL CONSUMPTION (Average to Maximum)	0.1 – 0.45 gal/hr. (0.4 – 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	Diesel (ULSD #1, #2 and Arctic Blend), Kerosene (K-1), Jet (A, A-1 and JP8), Bio fuels (up to B20)
IGNITION TYPE	Electronic spark ignition
HEAT EXCHANGER CAPACITY	1 quart (.95 litre)
WEIGHT heater only with enclosure	40 lb (18 kg) 55 lb (25 kg)
DIMENSIONS – HEATER (L x W x H)	18.9 x 11.2 x 10.6 inches (480 x 285 x 270 mm)
DIMENSIONS – ENCLOSURE (L x W x H)	20.2 x 12.3 x 10.6 inches (513 x 313 x 270 mm)
WARRANTY	Three years parts and labor
REGULATORY COMPLIANCE	Meets FMCSA bus heater requirements when installed in accordance with §393.77: heaters

PROHEAT X45 SCHOOL BUS KITS	PART NUMBER
SCHOOL BUS HEATER KIT Electronic controller, coolant pump, mounting base, impact switch, 3/4" coolant hose, 3/4" to 1" brass reducers (2)	PH0408P
INSTALLATION KIT Power wire harness, fuel pick-up and hose, control wire harness, exhaust system, nuts, bolts, washers for mounting	PK0312

OPTIONAL COMPONENTS	PART NUMBER
ALUMINUM ENCLOSURE BOX (diamond plate)	PK0200
ALUMINUM ENCLOSURE BOX (plain finish)	PK0300
7 DAY DIGITAL TIMER	PK0001-1

Please Note: Specifications are subject to change without notice.

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Designed and Manufactured in North America



Electronic Controller

An impact switch automatically shuts the heater off in the event of a vehicle roll-over.



Enclosure (diamond plate)

