

LegendConnect™

Installation Guide

Application

Legend Connect™ is an industry exclusive feature offered by Legend Hydronics used for installation of various Legend hydronic products. These products currently include: T-88 Air & Debris Eliminator, HS-808 Hydraulic Separator and LMV-3 Three-Way Mixing Valve. The LegendConnect™ system provides a union connection at each connection point and provides the flexibility of providing multiple connection sizes and types (see the LegendConnect™ Ordering Guide for specifics) on a single body size.

Installation / Assembly

With the LegendConnect™ system, the Union nut and Gasket used for connecting the Component Body (T-88, HS-808 or LMV-3) to the system is provided with the specific component when purchased. When the various connector types are purchased (separately) the package will include just the actual system connector. See the below for the proper installation guideline, based on your connector type.

For the LegendConnect™ FNPT and MNPT adaptor:

- A) Remove the Tailpiece Nut and Gasket from each side of the Component Body.
- B) Place the Tailpiece nut over the LegendConnect™ adaptor, insert the gasket into the Tailpiece nut and thread the nut onto the Component Body.
- C) Apply pipe thread sealant to the male threads of the pipe or LegendConnect™ adaptor and thread the pipe and adaptor together.
- D) Using Channel Locks or a pipe wrench to hold the LegendConnect™ adaptor and a pipe wrench on the pipe, tighten the two items together.
- E) If the LegendConnect™ adaptor you selected has an integrated ISO valve, position the selector (screwdriver slot) so that it will be visible once the Component Body is installed.
- F) Holding the Component Body, tighten the Tailpiece nuts, one at a time.

For the LegendConnect™ Compression adaptor:

- A) Remove the Tailpiece Nut and Gasket from each side of the Component Body.
- B) Place the Tailpiece nut over the LegendConnect™ adaptor, insert the gasket into the Tailpiece nut and thread the nut onto the Component Body.
- C) Remove the compression nut and compression sleeve from the LegendConnect™ adaptor.
- D) Insert rigid copper tube through the compression nut and slide the compression sleeve onto the copper tube.
- E) Insert the rigid copper tube with the compression sleeve and nut into the LegendConnect™ adaptor and thread the compression nut unto the LegendConnect™ adaptor.
- F) Using Channel Locks or a pipe wrench to hold the LegendConnect™ adaptor and adjustable or 1-1/2" open end wrench on the compression nut, tighten the two items together.
- G) Position the LegendConnect™ adaptor so that the selector (screwdriver slot) will be visible once the Component Body is installed.
- H) Holding the Component Body, tighten the Tailpiece nuts, one at a time.



Pictured:
LegendConnect™ Adaptors



Pictured:
HS-808
Hydraulic Separator

Pictured:
T-88
Air & Debris
Eliminator



Pictured:
LMV-3
3-Way Mixing Valve

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For the LegendConnect™ Press adaptor:

- A) Remove the Tailpiece Nut and Gasket from each side of the Component Body.
- B) Inspect the LegendConnect™ Press socket to ensure that each adaptor has two EPDM o-rings.
- C) Place the Tailpiece nut over the LegendConnect™ adaptor, insert the gasket into the Tailpiece nut and thread the nut onto the Component Body.

CAUTION: Under no circumstances should a petroleum-based lubricant be applied to the EPDM o-rings.

- D) On each piece of 3/4", 1" or 1 1/4" rigid copper tube (Type K, L or M) to be used, make sure it has been cut square and has been de-burred inside and out.
- E) Using a permanent marker, **mark a line 1-9/16" (40 mm)** from the end of the tube to be pressed.
- F) Insert the rigid copper tube (Type K, L or M) into the LegendConnect™ Press adaptor until it hits the stop. Verify the copper is fully inserted, up to the marked line you made in Step E.
- G) Using a press tool with the proper size VUS profile jaws, press the adaptor and tube together. Observe the jaw ends during the pressing operation, making sure the jaw ends contact each other before opening.
- H) Visually verify that the tubing has remained in fully inserted during the complete press operation.
- I) Holding the Component Body, tighten the Tailpiece nuts, one at a time.

For the LegendConnect™ Sweat adaptor:

- A) Remove the Tailpiece Nut and Gasket from each side of the Component Body.
- B) On each piece of rigid copper tube (Type K, L or M) to be used, make sure it has been cut square and has been de-burred inside and out.
- C) Clean, flux and sweat the rigid copper tube and the LegendConnect™ Sweat adaptor together, using standard accepted soldering practices.
- D) Let the LegendConnect™ Sweat adaptor and rigid copper tube cool.
- E) Place the Tailpiece nut over the copper pipe and the LegendConnect™ adaptor, insert the gasket into the Tailpiece nut and thread the nut onto the Component Body,
- F) Holding the Component Body, tighten the Tailpiece nuts, one at a time.