

Chassis / Coil Pack to Riser Connections

To help you understand the various options The Whalen Company offers with respect to riser to chassis and riser to coil pack, the information below is intended to explain each option, how they match up during installation and what option designation to select when configuring models in the Integrated Sales Center™ (ISC) software.

For a complete system, we must specify three items and how those items connect. The first connection is the chassis or coil pack, the second is the hose, and the third and final connection is the ball valve on the riser. Depending whether the risers are factory or field supplied; will determine where the ball valve is selected. For factory supplied risers, the ball valve is configured with the riser. For field supplied risers, the ball valve is configured with the accessory hose kit. To speed field supplied riser installation, we offer an expanded set of ball valve connection options in the hose kit and will provide the ball valve with the hose for attachment in the field.

Insta-Lock™ connection technology is fabricated with solid brass quick connects, stainless locking balls and EPDM seals that allow an instant connection with secure interlock crimp ferrules to prevent hose blow-out. The Insta-Lock™ hose simply pushes on and locks into place. These hoses have color indicators that are used to visually determine the supply and return and whether it is hot or cold. There is also a visual indicator to ensure that it is locked. Visual confirmation, however, is not the only sense used in connecting these lines. When the connection is made properly, the user can hear it click. Because it makes an audible sound, if it we're in an installation where you can't see the connection, one can listen for it to make sure it's engaged.

Insta-Lock™ connection technology is standard on the company's heat pump vertical stack units and is optional for other units. The braided hose adapter started shipping at the beginning of 2020 and was designed to be a quick connect hose that installers do not have to be concerned with getting the proper torque on the connection.

The tables below show the available options and the associated ISC option letter.

HEAT PUMP APPLICATIONS

Factory Riser

Water Connection on Chassis	Accessory Hose Connection	Ball Valve in Hose Kit	Ball Valve on Factory Supplied Riser
J - Insta-Lock™ Connector	E - Hose Connection - (Insta-Lock™ x Insta-Lock™)	Factory Supplied Riser - Ball Valve on Riser	A - Ball valve (Insta-Lock™ connection) J - Ball valve with memory stop (Insta-Lock™ connection)
A - GHT (Male)	D - Hose Connection - (GHT x GHT)		E - Ball valve (GHT connection) N - Ball valve with memory stop (GHT connection)

Field Riser

Water Connection on Chassis	Accessory Hose Connection	Ball Valve in Hose Kit	Ball Valve on Field Supplied Riser
J - Insta-Lock™ Connector	E - Hose Connection - (Insta-Lock™ x Insta-Lock™)	C - Ball Valve - (Insta-Lock™ x Sweat) D - Ball Valve - (Insta-Lock™ x FPT) E - Ball Valve - (Insta-Lock™ x ProPress) F - Ball Valve - (Insta-Lock™ x NexLock)	Field Supplied Riser - Ball valve in Hose Kit
A - GHT (Male)	D - Hose Connection - (GHT x GHT)	G - Ball Valve - (GHT x Sweat) H - Ball Valve - (GHT x FPT)	

FAN COIL APPLICATIONS

Factory Riser

Water Connection on Coil Pack	Accessory Hose Connection	Ball Valve in Hose Kit	Ball Valve on Factory Supplied Riser
J - Insta-Lock™ Connector	E - Hose Connection - (Insta-Lock™ x Insta-Lock™)	Factory Supplied Riser - Ball Valve on Riser	A - Ball valve (Insta-Lock™ connection) J - Ball valve with memory stop (Insta-Lock™ connection)
C - NPSH (Straight)	A - Hose Connection - (NPSH x NPSH)		G - Ball valve (NPSH connection) Q - Ball valve with memory stop (NPSH connection)

Field Riser

Water Connection on Coil Pack	Accessory Hose Connection	Ball Valve in Hose Kit	Ball Valve on Field Supplied Riser
J - Insta-Lock™ Connector	E - Hose Connection - (Insta-Lock™ x Insta-Lock™)	C - Ball Valve - (Insta-Lock™ x Sweat) D - Ball Valve - (Insta-Lock™ x FPT) E - Ball Valve - (Insta-Lock™ x ProPress) F - Ball Valve - (Insta-Lock™ x NexLock)	Field Supplied Riser - Ball valve in Hose Kit
C - NPSH (Straight)	A - Hose Connection - (NPSH x NPSH)	J - Ball Valve - (NPSH x Sweat) K - Ball Valve - (NPSH x FPT)	

