

Technical Service Bulletin

Cascade Package Flange Sizes

Buderus

Introduction

The Buderus GB162 TL and TR packages all come supplied with flanges to enable the contractor to connect to the low loss header. Listed below are flange sizes and connection information offered with each cascade package.

Flange sizes and descriptions

GB162 TL2 & TR2

This package is supplied with two 2½" (63.5 mm) welded flanges that are located on and already connected to the low loss header, for both system side supply and return connections.

Also supplied in the package are two 2" (50.8 mm) NPT threaded flanges. These can be used as an option but the system pipe sizing may have to be increased at the flanges to accommodate the system load.

GB162 TL3

This package is supplied with two 2½" (63.5 mm) welded flanges that are located on and already connected to the low loss header, for both system side supply and return connections.

GB162 TR3, TL4, & TR4

This package is supplied with two 3" (76.2 mm) welded flanges that are located on and already connected to the low loss header, for both system side supply and return connections.

GB162 TR5/6 & TR7/8

These packages are supplied with 4" (101.6 mm) welded flanges that are located on and already connected to the low loss header, for both system side supply and return connections.

Correct pipe sizing to the heating system

The sizes of the flanges supplied are based on the average requirements of a typical heating system, using a 20 degree delta T. There may be instances where the contractor will have to increase the secondary pipe sizing based on the system requirements and the heating load.

For example, a pipe of a certain diameter will only carry a certain amount of heat from the header, so it may be necessary to increase the pipe sizing after the supplied secondary connections. If a pipe has a reduced diameter, the hydraulic resistance of the system will increase and result in poor flow around the system.

The supplied flanges will be suitable for the majority of systems but it is the experience and knowledge of the contractor that will ultimately determine the correct pipe sizing to the heating system.

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