



Danze®

Shower System Design Guide

Parma ¾" Thermostatic Shower System

How To Make Your Shower Hot!

Danze® didn't invent the shower. We just keep turning up the temperature with lots of new and exciting designs.

Whether you're waiting to be inspired or already have an idea in mind, you'll find beauty has no limits with our *mix'n match* collections, finishes, trim styles, showerheads and accessories.

And to assure that worry-free function always follows form no matter which look speaks to you, you'll discover that every part of our in-the-wall engineering lives at a higher degree of quality, innovation and reliability.

We now invite you to peruse the rest of this revealing system guide. And after you do, we know you'll have a deeper appreciation for what customers mean when they say: *"You feel the heat of a Danze shower, long before you turn on the water."*



Danze®

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Design Your Danze Shower System

Danze provides shower system options to meet virtually any design and any budget. Before you start creating your dream, you'll need to assemble some basic information.

1. Danze shower products and systems are designed to function with water supply pressure between 20 psi and 80 psi. Optimum water pressure is between 45 psi and 80 psi — so be sure to check with your plumber or local water department.
2. Measure the space - the floor, the walls, the ceiling and diameter of your existing drain.
3. You'll want to make sure you have enough hot water, so write down the size of your existing water heater. Your plumber will size your water heater based on the system selected.
4. List your desired components' showerheads, handheld showers and body sprays.
5. Mark down the trim styles and finishes you like best.
6. Sit down with your Danze design representative to design your new system.

Be sure to visit our website for a complete selection of decorative plumbing products to complement your new shower system design and to find a Danze Registered Showroom near you.

Finishes

Danze shower systems are available in many finishes. Each collection is offered in at least two different finish options, * Polished Brass and Polished Nickel products feature a unique Permanence® PVD finish that will never scratch, tarnish or corrode.



* Polished Brass



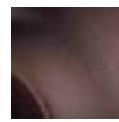
Polished Chrome



Brushed Nickel



Distressed Nickel



Oil Rubbed Bronze



* Polished Nickel

Danze®



Opulence™ Shower System ½" Thermostatic with 4 Port Diverter

Valve Technology

Danze offers a selection of shower valves to match your unique needs, design and budget. From our 1/2" valves that work easily with your existing plumbing system for an upgraded shower experience, to our 3/4" Thermostatic Valve that can support designs limited only by your imagination, our valves provide a dependable, high performance shower experience.

Each valve is designed to provide a consistent, safe temperature range and water flow across every outlet in your system. Every valve option has been designed to eliminate the risk of scalding. With Danze valve technology, you can design up to a 6 component system with showerheads, body sprays and personal shower systems — you can count on Danze to deliver.

Installation Flexibility

We realize there are a lot of decisions to make with your shower system project — tile, lighting, paint colors. Danze shower systems are engineered to make the design experience as relaxing as the shower experience.

With Danze, you don't have to make a final decision on trim style and finish right away. You can wait until the end of the project. Just determine your basic design and select the appropriate valve system to get the project moving. We have multiple trim styles and multiple finishes for each of our valve platforms, all interchangeable and all designed for a precise fit.



3/4" Thermostatic System
Sonora (Chrome).



1/2" Thermostatic System
Sonora (BN).



1/2" Pressure Balance System
Opulence (RB).

Danze[®]

The Right Valve For The Right Job

Danze offers unsurpassed design flexibility with a selection of shower valves to match your design, budget and plumbing system. From a simple shower upgrade to a multi-outlet, high performance shower experience — Danze has a shower valve engineered to meet your requirements.

The number of shower components specified and how you want to use your shower will determine the right valve for the job. Your Danze design representative can provide valuable advice and assistance in selecting the right system.



We've Really Got You Covered

We engineered our new $\frac{3}{4}$ " **Thermostatic Valve** to provide the convenience of thermostatic technology and highest flow rates (16 gpm @ 45 psi) to work with our most popular design collections.

- Up to 6 shower components for each valve in your shower design ¹
- $\frac{3}{4}$ " valve can be used with 1 - 4 separate volume controls

With a shower experience that covers every conceivable angle, the only remaining question is, "Who gets to shower first?"

¹ Total component flow rate should not exceed system flow rate (16 gpm @ 45 psi).



An Easy Way To Expand An Existing Shower

Our $\frac{1}{2}$ " **Thermostatic Valve** is easily installed onto standard piping.

When combined with our $\frac{1}{2}$ " Diverter Valve, it allows you to add a custom touch to your shower design.

- Can use 3 or 4 components when installed with $\frac{1}{2}$ " Thermostatic Valve and four port diverter ²

You'll wonder why you waited so long to treat yourself to this remarkable shower experience.

² Total component flow rate should not exceed system flow rate (8.25 gpm @ 45 psi).



The Basic Shower, That's Anything But

Our $\frac{1}{2}$ " **Pressure Balance** valve automatically balances incoming hot & cold water pressure to provide a consistent, comfortable temperature. With a flow rate strong enough to support up to two showerheads, it's the perfect choice when you want to take a basic shower to the next level.

- Ideal for single shower, tub/shower combination or shower/handshower combinations ³

³ Total component flow rate based on valves D112000BT, D113000BT and D115000BT.

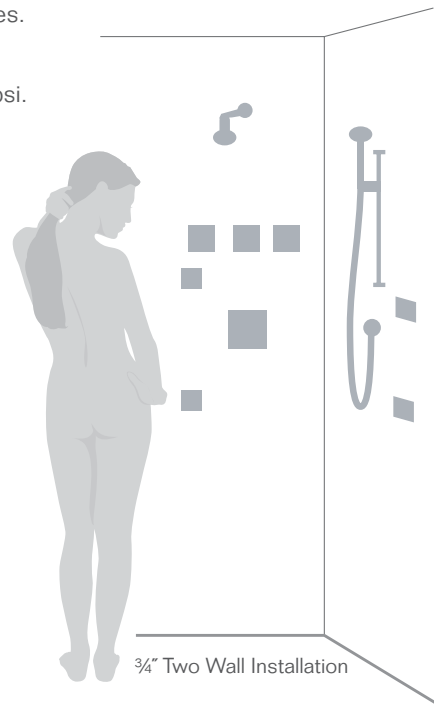
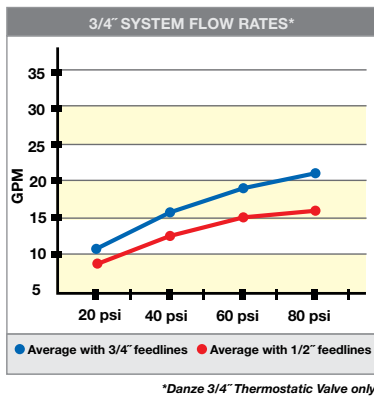
3/4" Thermostatic with Volume Controls

Our 3/4" Thermostatic Valve system provides the ultimate custom shower experience. Innovative valve design allows you to select a precise temperature for your shower. The system automatically adjusts to fluctuations of the incoming water pressure and temperature to maintain your selected temperature throughout your shower experience, day after day.

Individual volume controls allow you to control the flow rate to each of the outlets within your shower system. You have individual control of water flow to your showerhead, handshower and body sprays.

Our 3/4" Thermostatic System is designed for 3/4" and 1/2" water supplies. It can support up to 6 shower components* including showerheads, personal shower systems and body sprays providing 16 gpm @ 45 psi.

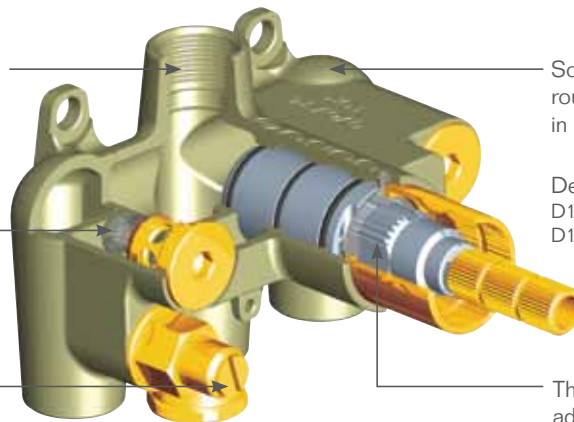
* This assumption is based on each shower component delivering a maximum water output of 2.5 gpm. (6 x 2.5 = 15.0 gpm)



Vertical 3/4" NPT female inlets and outlets allow for a compact design and easy installation

Removable in-line screens help prevent debris from clogging the cartridge — flushing plugs are included with the valve to make the installation process simple and error free

Screwdriver stop & check valve provides easy access during installation & maintenance



Solid brass body with 13/16" rough-in tolerance, fits easily in 2 x 4 stud wall construction

Deep wall extension kits available:
 D155001BT - 3/4" Thermostatic Valve Kit
 D135301BT - 3/4" Volume Control Kit

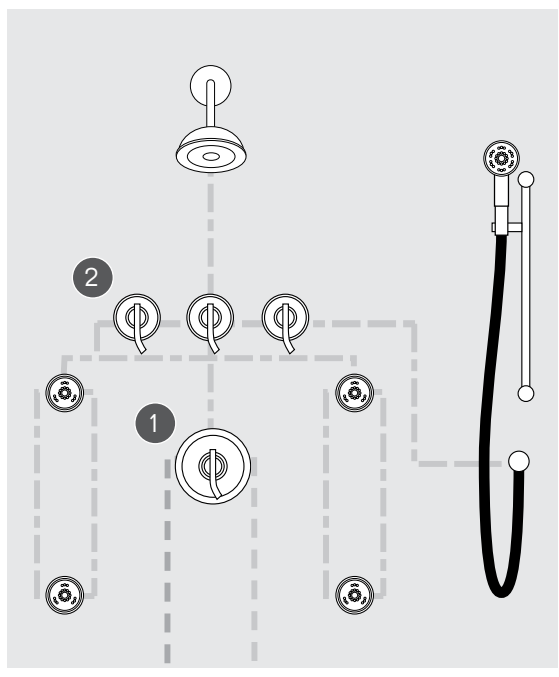
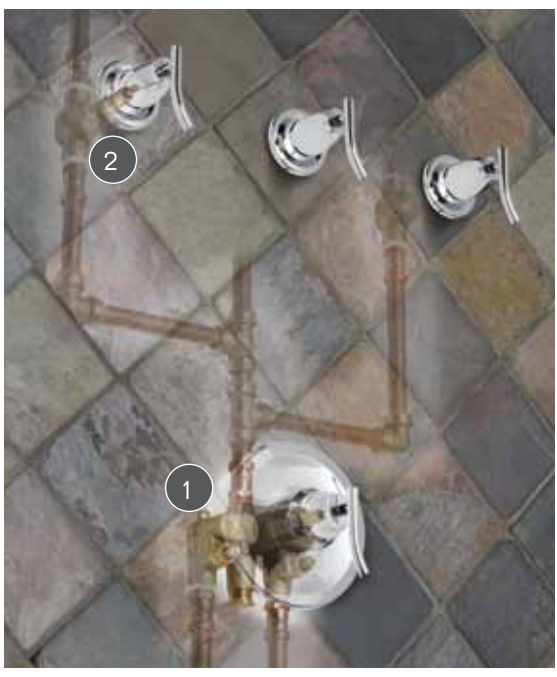
Thermostatic cartridge automatically adjusts to the temperature and pressure of incoming water lines to provide a consistent output temperature



3/4" Thermostatic Valve Setup

Our 3/4" Thermostatic System is designed to provide a precise, consistent temperature throughout your shower experience with individual control over each outlet.

A single thermostatic mixing valve can provide 16 gallons per minute at 45 psi to support up to 6 shower components¹. Your system should include a volume control for each showerhead, handshower and bank of body sprays. The images below illustrate the plumbing configuration of a 3/4" 2-wall shower system design.

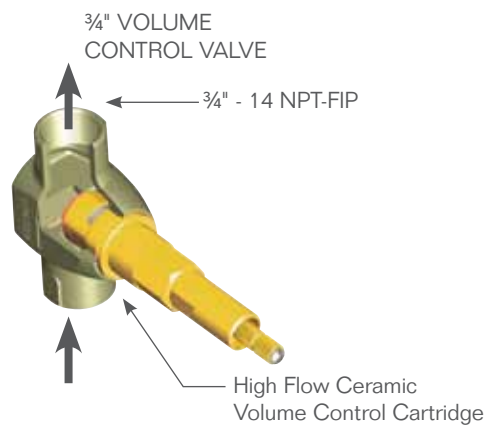


The Danze 3/4" Thermostatic Shower System consists of:

- 1 A mixing valve that precisely controls the temperature of the water in your shower
- 2 Individual volume controls that manage the water flow to each outlet

A volume control is required to operate the Danze 3/4" Thermostatic Valve.

¹ Based on average output/flow of 2.5 gpm for each shower component. Depending on system water pressure and the shower system components selected, the Danze 3/4" shower system may support more or less components.



For product selection and specifications visit
www.danze.com

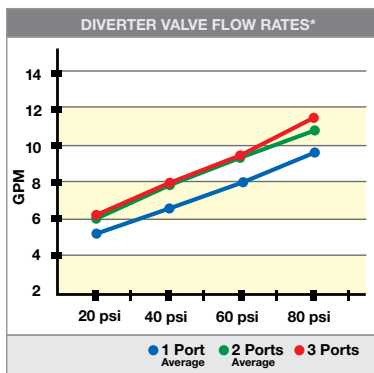
1/2" Thermostatic with 4-Port Diverter

Add a touch of luxury to your shower experience with the Danze® 1/2" Thermostatic Custom Shower System. Designed to work with 1/2" piping, our 1/2" Thermostatic Valve System is a logical upgrade from a standard 1/2" Pressure Balance Valve.

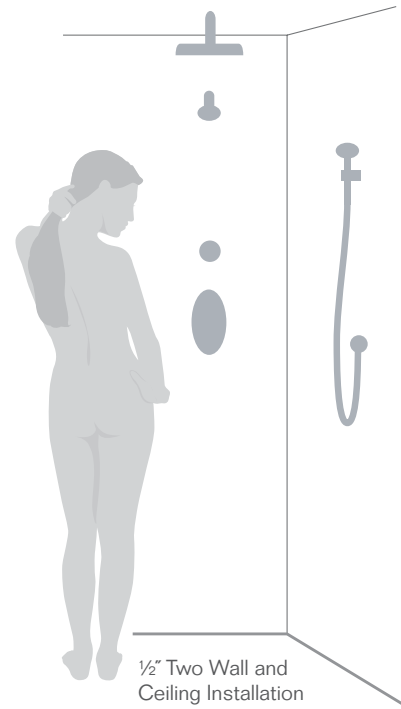
Volume and temperature are controlled by our 1/2" Thermostatic Valve, while our 4-port diverter directs water flow to each of the outlets within your shower system.

Our 1/2" Thermostatic System is designed for 1/2" water supplies and can support up to 3 or 4 shower components including showerheads, personal shower systems and body sprays.¹

¹ This assumption is based on each shower component delivering a maximum water output of 2.5 gpm (3 x 2.5 = 7.5 gpm).



*Connected to Danze 1/2" Thermostatic Valve



4-Port Diverter Valve

Ceramic Disc Valve

Water Flow To Diverter

Deep wall extension kits available:
D151001B - Valve Kit
D130001B - Volume Control Kit

Integral Volume Control

High Flow Thermostatic Valve

Screwdriver stop and check valve

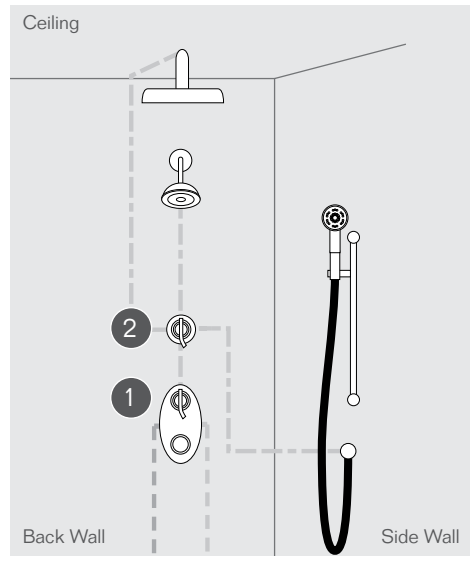
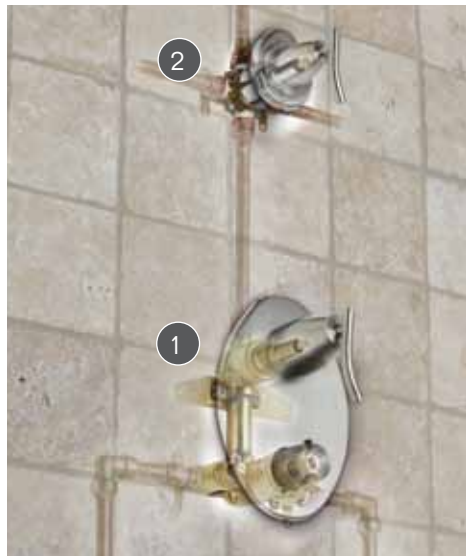
1/2" combination copper/IPS connection
Base on each showerhead delivering a maximum water output of 2.5 gpm (2.5 x 2 = 5.0 gpm)



1/2" Thermostatic Valve Setup

Our 1/2" Thermostatic System is designed to provide a precise, consistent temperature and volume control throughout your shower experience, with a 4-port diverter directing water to each outlet.

Our 1/2" Thermostatic Mixing Valve, combined with the 4-port diverter, can provide 8 gallons per minute at 45 psi to support up to 3 or 4 outlets. The images below illustrate a basic plumbing configuration. A diverter is not required to operate the Danze 1/2" Thermostatic Valve, but is commonly used to create a multi-component shower system.



- 1 1 Danze 1/2" Thermostatic Valve with trim
- 2 4-Port diverter with trim



Opulence™ 1/2" Thermostatic Valve System with 4-Port Diverter

For product selection and specifications visit
www.danze.com

1/2" Pressure Balance with Diverter



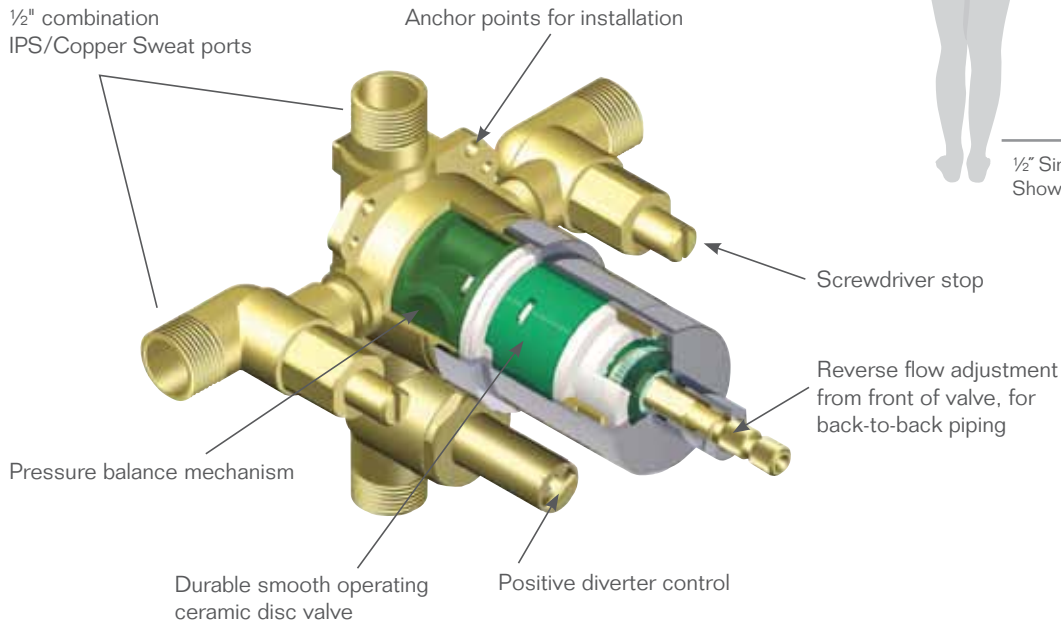
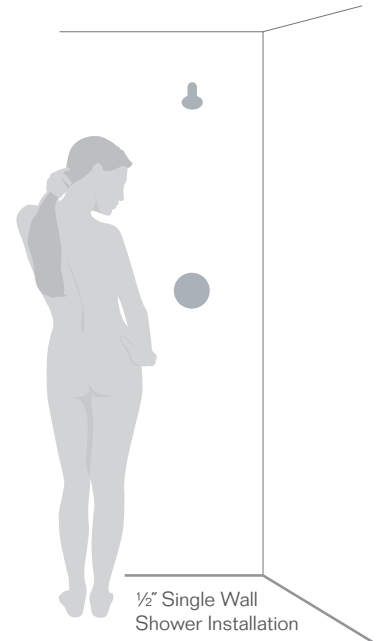
D113000BT with diverter and stops

The Danze® Pressure Balance System controls water temperature by automatically adjusting the fluctuations of incoming water pressure. This system is ideal for a traditional single shower or tub/shower combination. When combined with a handshower and one of our multi-function showerheads, it allows you to take a traditional one outlet shower to a higher level. We offer three variations of our 1/2" Pressure Balance Valve, including: with stops, with diverter & stops, and less stops.

Pressure Balance Valve with Integrated Diverter

Our 1/2" Pressure Balance Valve automatically adjust incoming hot and cold water flow to provide a consistent, comfortable temperature range. With a flow rate strong enough to support up to two showerheads, it's the perfect choice when you want to take a basic shower to the next level.

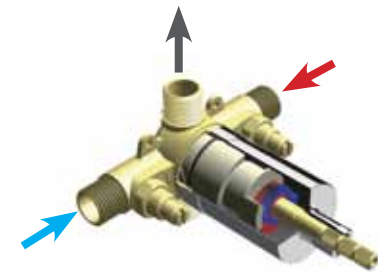
Our D113000BT valve allows for supplied water to be diverted to either a single tub filler or additional shower components.



Pressure Balance Valve with Diverter on Spout



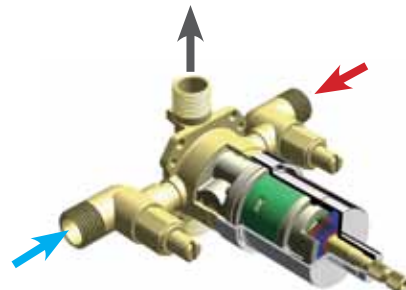
D112500BT with stops



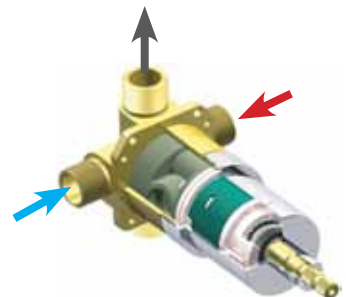
- Up to 2 shower outlets
- Single component system with option to add handheld shower unit with integral diverter or using showerarm mount supply diverter
- Cost competitive
- Solid cast body in compact design
- Washerless cartridge w/temperature limit stops



D112000BT with stops



D115000BT without stops

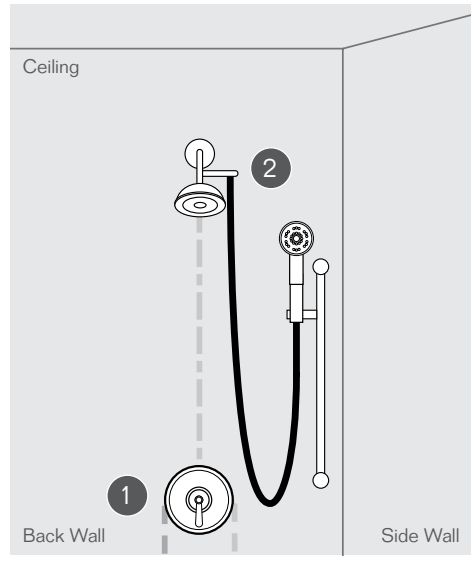


- Up to 2 shower outlets
- Single component system with option to add handheld shower unit with integral diverter or using showerarm mount supply diverter
- Ceramic cartridge with temperature limit stops

For product selection and specifications visit
www.danze.com

Pressure Balance Valve Setup

Our 1/2" Pressure Balance Valve can provide 6 gallons per minute at 45 psi to support up to 2 outlets. The images below illustrate the plumbing configuration of a 1/2" Pressure Balance Shower System featuring a showerarm diverter, handheld shower and slide bar.



1. Danze Pressure Balance Valve with trim.

2. Showerarm diverter.



Amalfi™ 1/2" Pressure Balance Valve with Trim

Danze®

Shower Technology

The Perfect Showerhead for any Application

Conservation Flow - 1.5 gpm @ 20 - 80 psi

- For applications requiring water savings of 40% versus Standard Flow showerheads.
- Danze offers two new 1-function showerheads designed to optimize shower performance at low flow rates.
- Featuring our patented Pressure Manifold™ Technology.
- Delivers wide coverage, consistent distribution and optimal water velocity even at low water pressure.



Efficient Flow - 1.75 gpm and 2.0 gpm @ 20 - 80 psi

- WaterSense compliant at either 1.75 gpm or 2.0 gpm.
- Using 20% and 30% less water versus Danze Standard Flow showerheads.
- Available in multiple showerhead and handshower configurations.
- Efficient Flow showerheads are designed to save water without compromising on shower performance.

Standard Flow - 2.5 gpm @ 80 psi

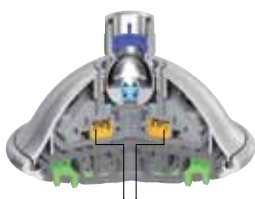
- Danze Standard Flow showerheads deliver the maximum flow rate allowable under EPACT 1992.
- Available in multiple showerhead and handshower configurations.
- New Standard Flow shower products feature patented technology that maximizes spray intensity, distribution and coverage.



Danze Shower Technology

D-Force™ Technology

- Minimizes pressure loss
- Easy-Glide™ selector ring
- 3-5 functions all with powerful centerjet spray



Dual Valve Structure
- Minimizes Pressure Loss



Pressure Manifold Channel
- Maximizes Water Force

Pressure Manifold™ Technology

- Maximizes water force even at low water pressures
- Powerful full spray without "hollow center"



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