

Pr_40_20_87_75 Shower fittings package
Pr_40_20_87_81 Shower thermostatic water supply sets
N13/375 Shower units
N13/40 Shower units

Shower Panels

Healthcare | Secure | Education | Sport & Leisure

HORNE

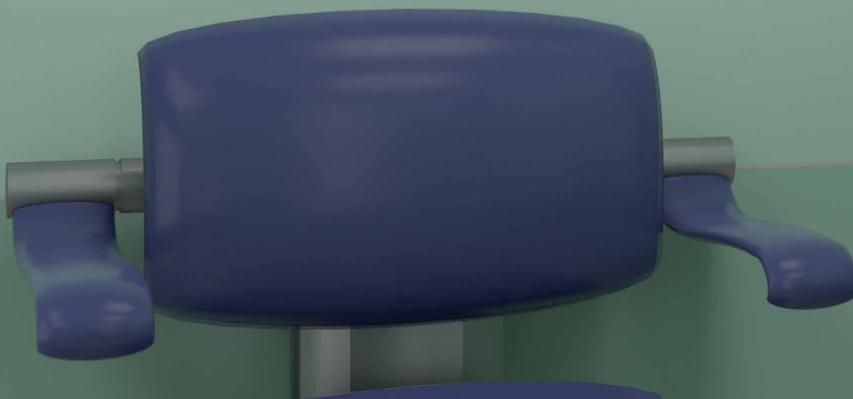
Introduction

HORNE Engineering have been manufacturing thermostatic valves since 1909

Over this time, our thermostatic technology has been continuously developed and refined and is now incorporated into our extensive range of shower products. Our shower panels have been developed to precisely address the particular requirements of a variety of specific commercial and institutional environments such as healthcare, education, sport and leisure as well as niche applications like secure accommodations, hospitals, elderly and dementia care and Changing Places facilities.

Within our company, product development is a continuous programme - always addressing the requirements of the user as well as the specifier, installer and maintenance administrator and operative.

HORNE Engineering Ltd is an ISO 9001:2015 accredited company.



Contents



2	Why HORNE shower panels?
3	Explore our extensive range
4	T105A
5	T1Y8A2L
6	T605BLR
7	T206A
8	T206T41L
9	T113ALR
10	T109T9LR
11	T307B
12	S407A
13	In-line Thermal Disinfection Unit
14	Shower panel accessories
15	Dušo

Why HORNE shower panels?

Every Horne shower panel benefits from the following features that are generic across the range and represent a design that is safe yet simple, sustainable and durable for a long-lasting and dependable operational life.

Safe

Simple

Sustainable

Durable

Multiple variants, multiple applications – optimal safety guaranteed for each application.



Fully pre-plumbed assembly, for easy installation and maintenance (*and reuse, if necessary*)



Safe from scalding, safe from burning.

includes high-performance, Type 3 (Healthcare) Approved thermostatic mixing valve and, encased inside the panel, the user is protected from the hot surface of the hot water supply pipe.



Easy to clean shower panel and fittings



Robust and resilient. Twice anodised aluminium extrusion with protective coating of smooth epoxy-polyester powder coating with tough and durable fittings



Reliable – Accurate and consistent temperature control via Horne thermostatic mixing valve, complete with check valves, high capacity fine mesh strainers and isolating servicing valves



Economical – includes integral 8 L/min flow regulator for water and energy conservation.



Easy Isolation – low level isolation valves aid servicing of the TMV and water supplies.



Easy access for maintenance – of both valve and water supplies.



Low cost spare parts



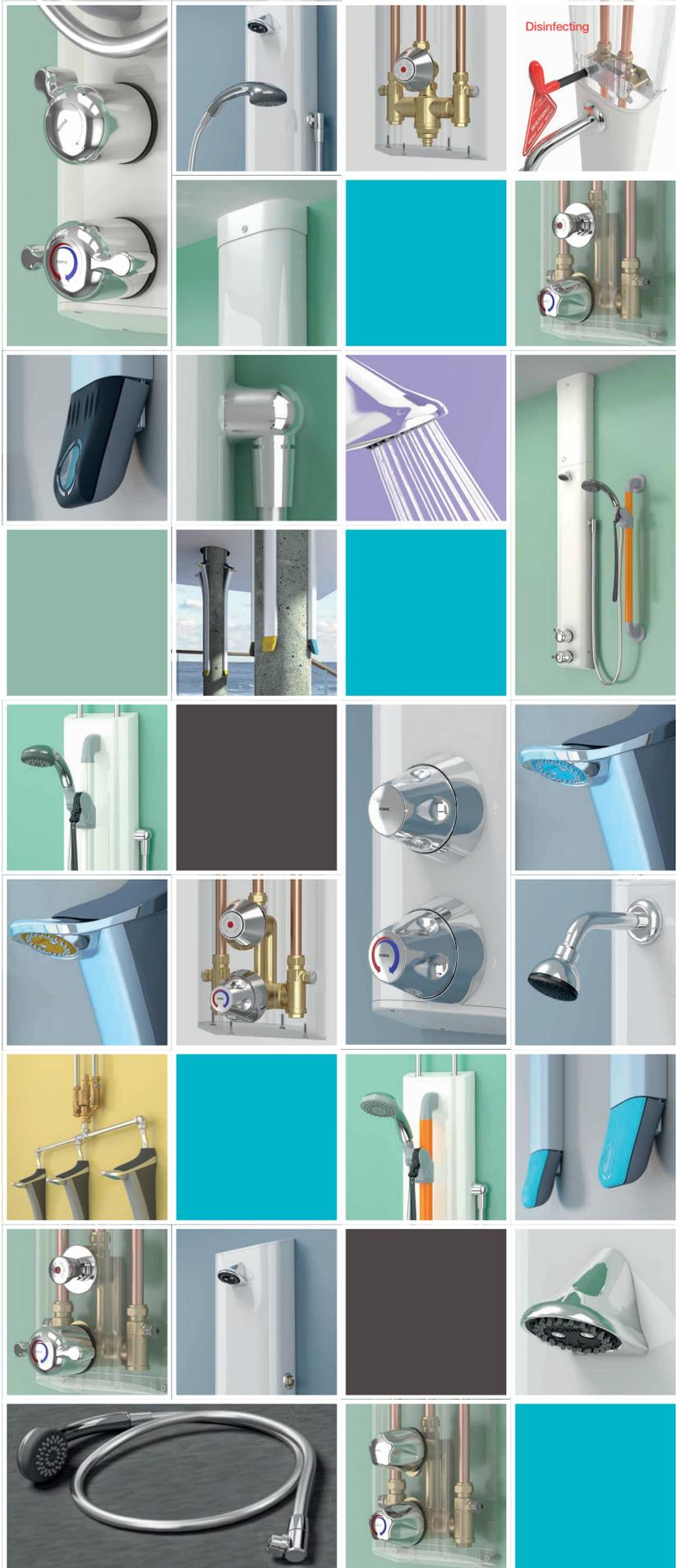
Maintenance Training – available free of charge at www.horne.co.uk



Fully recyclable – easy to reinstall for reuse or break down to constituent parts for recycling at end of operational life.



Explore our extensive range



With so many shower head, valve and control options, inlet arrangements and combinations, the Horne range of surface-mounted shower panels now numbers over 100 variants.

Featured in this brochure are details of selected shower variants and options, which can be mixed and matched to form your ideal shower specification.

Simply key in the reference numbers located at the top of each page (i.e. T105A) into the search box on the website homepage to find details of that panel. Then use the filters to explore the full range.

www.horne.co.uk

Applications

Healthcare



Mental Health



Dementia & Aged Care



Accessible & Changing Places



Sport & Leisure



Education



Secure Accommodation



Inlets 'A' top entry copper pipe

Fixed, vandal resistant shower head

Standard controls

TSV1-3 Shower valve



Fixed vandal and ligature resistant shower head

- Polished and chromium plated brass
- Wide spray pattern
- Easy-clean silicon rubber spray nozzles
- 2 spray positions
- Integral flow regulator (7.8L/min)



TSV1-3 thermostatic shower valve

- Type 3 Approved TMV (healthcare standard)
- UK Water Reg 4 Approved
- Safe and accurate temperature control - adjustable to a pre-set maximum
- Integral isolating/servicing valves

Inlets 'A' top entry copper pipe

100mm

Shower head - single function handset, 1.25m flexible hose, with robust and highly visible riser rail

439mm (min) 975mm (max) (536mm range adjustment)

BS 8300 Compliant lever controls*

TSV1-3 Shower valve

* when mounted 750-1000mm from FFL



Single function handset and hose

- Easy-clean, anti kink PVC shower hose
- Easy-clean handset and nozzles
- Contrasting riser & mechanism with easy slider
- Integral flow regulator (7.8L/min)



TSV1-3 thermostatic shower valve with lever controls

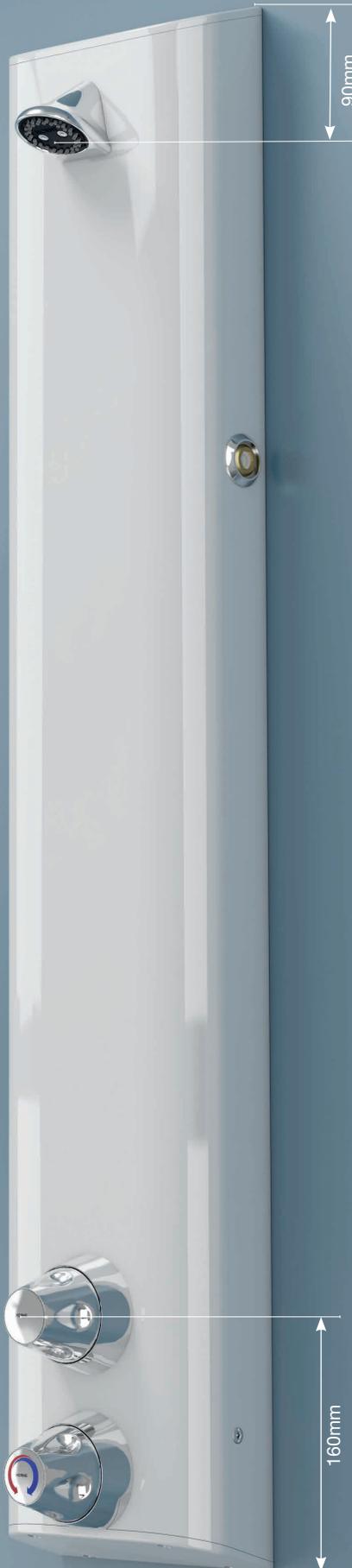
- Type 3 Approved TMV (healthcare standard)
- UK Water Reg 4 Approved
- Safe and accurate temperature control - adjustable to a pre-set maximum
- 1/4 turn on-off lever control

Dual mode with automatic diverter:
Vandal + Ligature resistant shower head and detachable 2m hose with single function handset

Inlets 'B'
Soft-PEX braided hose through rear

Ligature resistant user controls

TSV1-3
Shower valve



Please note that the T605 range of showers requires a minimum dynamic pressure of 2 bar at the shower head.



Assisted showering mode using detachable hose

- Integral *automatic* flow diverter *
- Easy-clean, anti kink PVC shower hose
- Easy-clean handset and nozzles
- UK Water Reg 4 Approved



TSV1-3 thermostatic shower valve with ligature resistant controls

- Type 3 Approved TMV (healthcare Standard)
- UK Water Reg 4 Approved
- Safe and accurate temperature control - adjustable to a pre-set maximum
- Integral isolating/servicing valves

* For **manual**, lever-operated flow diverter, please view our T705 shower range.

Inlets 'A' top entry copper pipe

Fixed, swivel shower head

Combined TSV shower valve with TFC



Directional swivel shower head:

- Robust chromium plated brass shank
- Easy-clean, single spray pattern
- Swivel ball for directional spray
- Integral flow regulator (8L/min)



TSV-TFC thermostatic shower valve with push button timed flow control

- Type 3 Approved TMV (healthcare standard)
- UK Water Reg 4 Approved
- Safe and accurate temperature control - adjustable to a pre-set maximum
- Timed flow control - max. duration 45 seconds (adjustable by FM operative)



Includes integral In-line thermal disinfection unit (ILTDU) and 465mm pipe cover (more info page 13)

- Bespoke key (Part No. **6236**) operates unit
- Facilitates periodic thermal disinfection with readily available hot water supply
- TSV-TFC responds by fully opening its cold port



TSV-TFC thermostatic shower valve with push button timed flow control

- Type 3 Approved TMV (healthcare standard)
- UK Water Reg 4 Approved
- Safe and accurate temperature control - adjustable to a pre-set maximum
- Timed flow control - max. duration 45 seconds (adjustable by FM operative)
- Integral isolating/servicing valves

Inlets 'A' top entry copper pipe

Fixed, vandal resistant shower head

Ligature resistant user controls

Combined TSV shower valve with TFC



Fixed, vandal and ligature resistant shower head

- Polished and chromium plated brass
- Wide spray pattern
- Easy-clean silicon rubber spray nozzles
- 2 spray positions
- Integral flow regulator (8L/min)



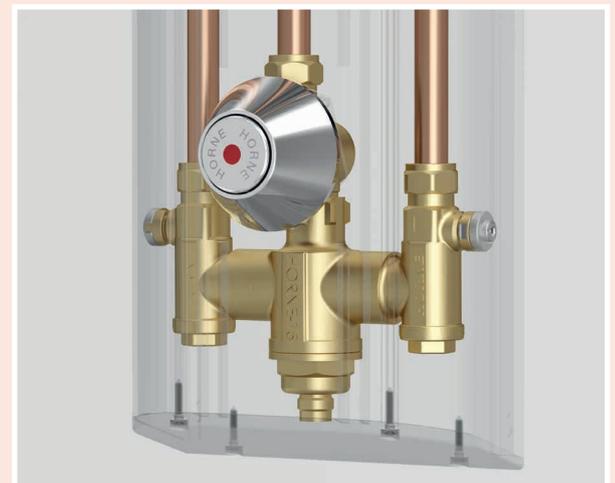
TSV-TFC thermostatic shower valve with ligature resistant controls

- Type 3 Approved TMV (healthcare standard)
- UK Water Reg 4 Approved
- Safe and accurate temperature control - adjustable to a pre-set maximum
- Timed flow control - max. duration 45 seconds (adjustable by FM operative)



Includes integral In-line thermal disinfection unit (ILTDU) and 940mm pipe cover (more info page 13)

- Bespoke key (Part No. **6236**) operates unit
- Facilitates periodic thermal disinfection with readily available hot water supply
- TMV responds by fully opening its cold port



Horne 15 thermostatic mixing valve (TMV) with push button timed flow control

- Type 3 and UK Water Reg 4 Approved TMV
- Safe and accurate temperature control
- Timed flow control - max. duration 45 seconds (adjustable by FM operative)
- Ligature resistant control
- Integral isolating/servicing valves



Three function handset and hose

- Easy-clean, anti kink PVC shower hose
- Easy-clean handset nozzles
- Contrasting and easy slide riser mechanism
- Integral flow regulator (8L/min)



Horne 15 thermostatic mixing valve (TMV) with push button timed flow control

- Type 3 and UK water Reg 4 Approved TMV
- Safe and accurate temperature control
- Timed flow control - max. duration 45 seconds (adjustable by FM operative)
- Standard push button control



Three function handset and hose

- Easy-clean, anti kink PVC shower hose
- Easy-clean handset and nozzles
- Contrasting and easy slide riser mechanism
- Integral flow regulator (8L/min)



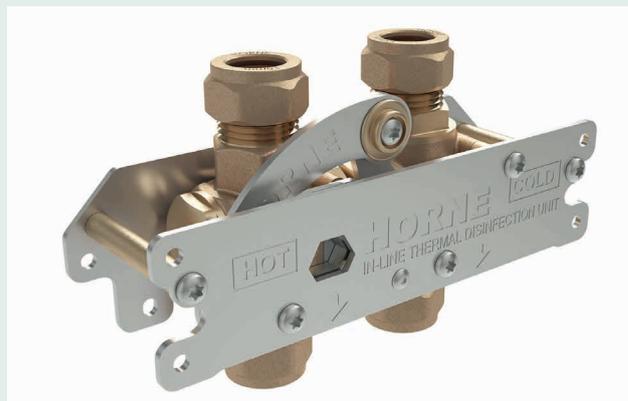
Premixed warm water supply via upstream Group TMV

- Safe and accurate temperature control (set by upstream HORNE group TMV)
- Timed flow control - max. duration 45 seconds (adjustable by FM operative)
- Standard push button control



Problem

In domestic water services, potable water is in constant contact with the internal pipe surface, and biofilm formation on that surface is certain. The last two metres of pipework to the outlet have also been shown to be particularly susceptible to biofilm development. Pair this with inevitable retrograde contamination and colonisation by *Pseudomonas* species and a new reservoir of infection results. This problem is specifically described in the UK Department of Health's Health Technical Memorandum, 04-01 Part C.



Solution

The **In-line Thermal Disinfection Unit, ILTDU**, which has been incorporated into the T4 and T9 shower panel models, facilitates periodic high temperature thermal disinfection using the readily available hot water supply. Now the thermal regime can be extended right down to the point of discharge. The wetted surfaces of all downstream components, including the shower valve and the outlet can be raised to system temperature, usually $>60^{\circ}\text{C}$.

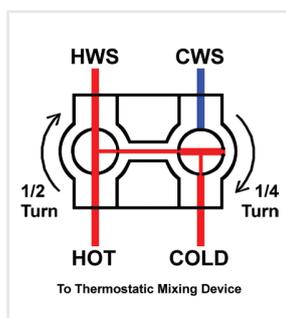
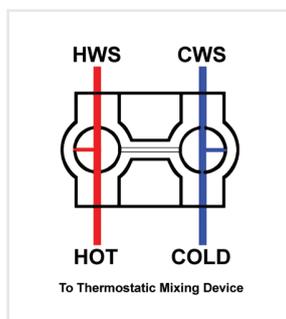
HOW IT WORKS

Passive mode

When not in use, hot and cold water flows to the shower valve and downstream fittings uninterrupted. The shower valve operates as normal.

Disinfection mode

The bespoke operation key (Part Number 6236, sold separately) transfers the mechanism into Disinfection Mode; diverting hot water at system temperature to both the hot inlet and the cold inlet of the downstream shower mixing device. The mixing device responds by fully opening its cold port thus the passing hot water raises the pipe drop, the mixing valve and its associated components, and the shower outlet/head to system temperature. During disinfection, the key and its Hot Water Warning sign cannot be removed from the ILTDU. Disinfect routinely for enhanced patient safety.



Duty of care

Thermal disinfection of outlets should be conducted, using the dedicated Operating Key (Part Number **6236**), by an appointed Responsible Person following an appropriate risk assessment. Immediate removal of the key following disinfection is good practice. For maximum effectiveness in improving water quality and minimising the rate of re-contamination (retrograde and from upstream reseeded), thermal disinfection should be conducted in combination with biofilm reduction by elevated velocity flushing via the drain points of the downstream shower valve using the HORNE Flushing Kit.

Accessories



2 metre hose

For assisted shower applications, a 2 metre hose can be specified to aid showering. Anti-kink and easy clean made from PVC.

Part Number **SA-108B**.



Pipe cover

In the same profile as the panel, the pipe cover hides the supply pipework between the top of the shower panel and the ceiling. The pipe cover protects the supply pipework from harm and prevents its use as a ligature point whilst cleaning is also made easier. Cut to size to suit the installation. Available in 2 lengths: 465mm or 940mm.

Part Numbers **SA-465PC** and **SA-940PC**.



Wall-mounted 600mm grab rails (orange or white)

Provide grab rails for additional mobility support at basins, WCs, baths and Horne accessible showers in inclusive/accessible and elderly care installations. An additional wall-mounted riser rail may be desirable in some other installations with hose and handset options. Select orange to aid users with age-related sight loss, decreased colour perception and other visual impairments.

For part numbers refer to page 17.



The Horne FLUSHING KIT facilitates the periodic flushing of the water supplies upstream of the shower valve or group TMV at elevated velocity. This increased flow rate gives higher turbulence and shear forces increase at the pipe walls; excess biofilm shears off and is removed to drain, thus improving water quality. Use during commissioning to flush out debris and in conjunction with thermal disinfection via the ILTDU. Also facilitates water supply sample collection.

Part Number **5138**.

Copper inlet pipe from above

158mm

Easy clean spray plate with 2 positions

Robust & corrosion resistant anodised aluminium extrusion

1070mm

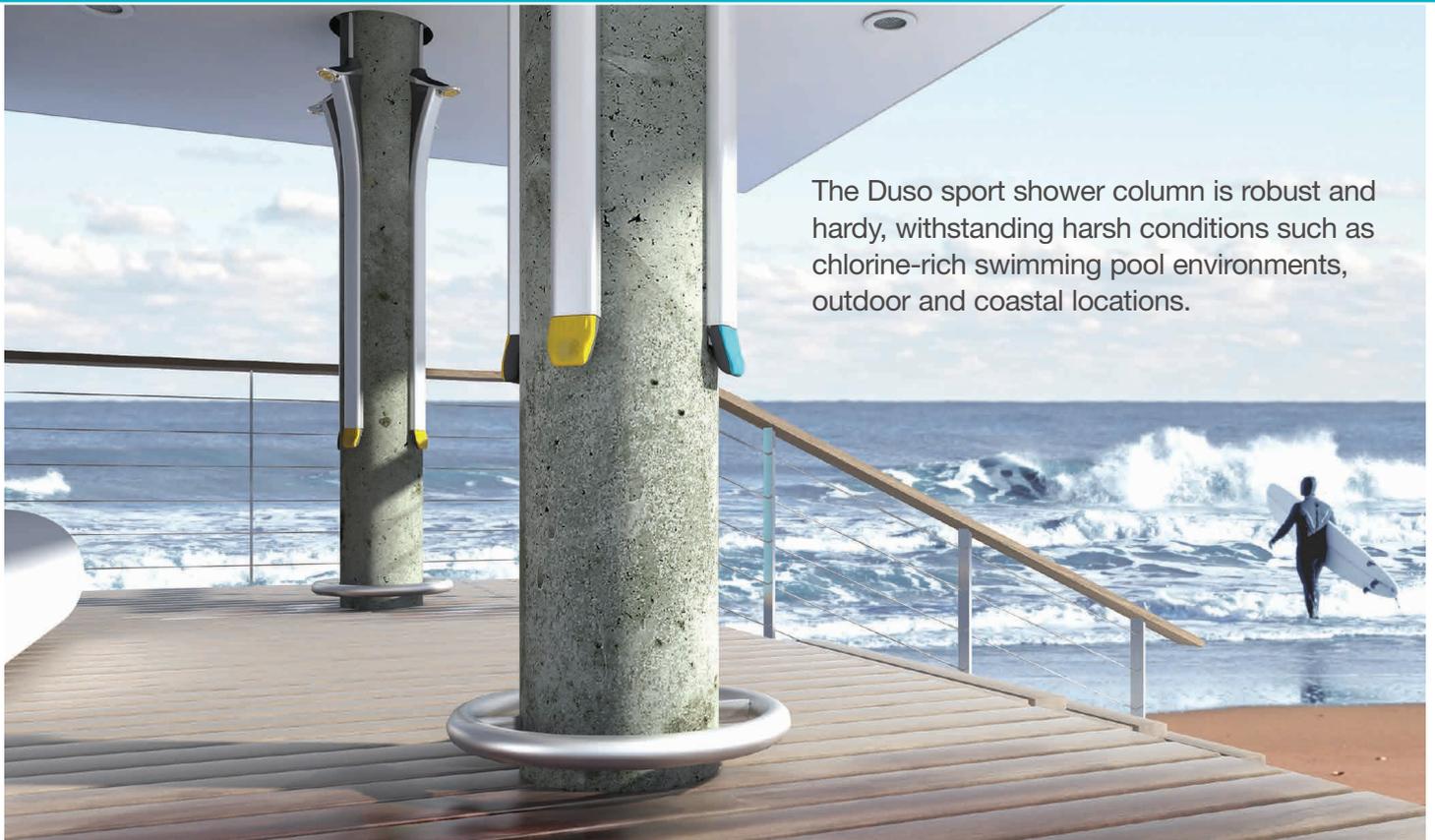
56mm

Standard TFC control - 60 second duration

The Dušo sport shower column is a modern and stylish non-thermostatic shower panel for sport and leisure applications. Supply pre-mixed warm water to a group of Dušo showers from a single, suitably sized, upstream group thermostatic mixing valve such as a HORNE 15 or HORNE 20.

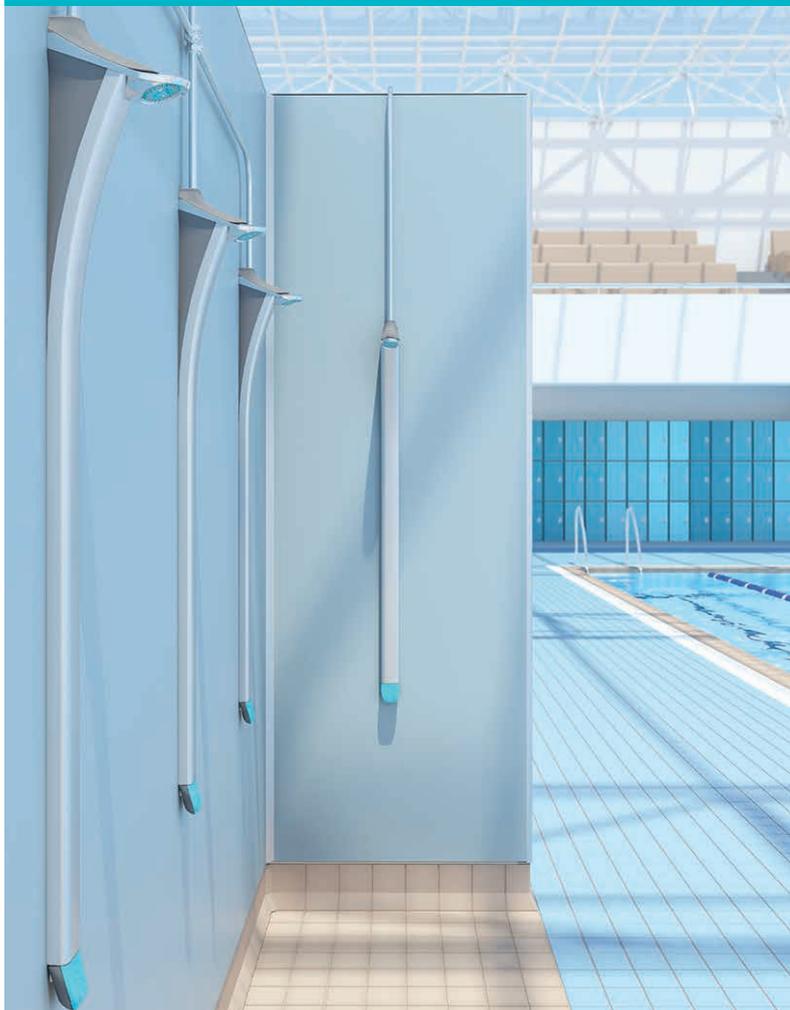
Colour options





The Duso sport shower column is robust and hardy, withstanding harsh conditions such as chlorine-rich swimming pool environments, outdoor and coastal locations.

Group Mixing Installation



Fixed, vandal resistant shower head with protective in-line strainer and flow regulator, easily accessible for cleaning and maintenance.



Horne Engineering Ltd

Experts in temperature control and leaders in quality, innovation and design since 1909.

Explore the full range and technical information at:
www.horne.co.uk

Wall-Mounted Support Rails - Part numbers

- 70-6600** Wall-mounted **riser rail** with sliding handset carriage, grey/white. Includes mechanism Release Extender. Vertical mounting only.
- 70-6601** Wall-mounted **riser rail** with sliding handset carriage, grey/orange. Includes mechanism Release Extender. Vertical mounting only.
- 70-6611** Wall-mounted **grab-rail** assembly, 675mm long between fixing point centres, grey/white. For vertical or horizontal mounting.
- 70-6612** Wall-mounted **grab-rail** assembly, 675mm long between fixing point centres, grey/orange. For vertical or horizontal mounting.

HORNE®

HORNE ENGINEERING LTD

PO Box 7,
Rankine Street,
Johnstone,
United Kingdom,
PA5 8BD

Tel: +44 (0)1505 321455

Fax: +44 (0)1505 336287

Email: sales@horne.co.uk

Web: www.horne.co.uk

HORNE Engineering Ltd reserves the right to change designs and specifications at any time and without notice.
HORNE, Dušo and Optitherm are registered trade marks of HORNE Engineering Ltd.