



SHOWER & EYE/FACEWASH EMERGENCY MIXING SYSTEM



MIXING VALVE SYSTEM FOR EMERGENCY SHOWER AND EYE/FACEWASH EQUIPMENT

FEATURES

- Utilises 2x 25mm Watermark approved high flow mixing valves.
- Provides tepid warm water up to 120 l/min at 70kPa pressure loss.
- Provides tepid warm water as low as 12 l/min if required for the eye/facewash.
- Union inlets have integrated strainer and check valves.
- Valves will shut off supply upon failure of cold water supply.
- Cold water will bypass the mixing valves upon failure of hot water supply.
- Set temperature can be locked using the locking nut on the adjustment spindle.
- Available in semi-recessed SS enclosure or on a galvanised steel plate.

PRODUCT DETAILS

The emergency mixing valve system incorporates Caleffi mixing valves which are Watermark approved to AS4032.2.

This emergency mixing system has been specifically designed to meet the requirements of both AS 4775 - Emergency eyewash and shower equipment, as well as ANSI Z 358.1.

When installed with a certified combination emergency shower to AS4775, the warm water flow rate shall allow for the simultaneous operation of both the Emergency Shower (Min: 75.7 l/pm at 210 Kpa) and Eye Face Wash (Min: 11.4 l/pm). The cold water bypass design allows for cold water only to flow through the assembly in the event of heated water supply failure to the mixing valves. This feature has been integrated to ensure the functionality and integrity of the emergency shower is maintained.

The valve is adjustable from 20 - 50°C, however, it is the responsibility of the specifier to determine the correct water temperature to each safety fixture, especially in applications where a chemical reaction is increased by water temperature.

TECHNICAL SPECIFICATIONS

TEMP ADJUSTMENT RANGE	20-50°C
COLD INLET TEMPERATURE RANGE	5-20°C
HOT INLET TEMPERATURE RANGE	55-85°C
MINIMUM TEMP DIFFERENTIAL BETWEEN MIXED OUTLET AND COLD INLET	5°C
MAX WORKING PRESSURE (STATIC)	1400kPa
MINIMUM DYNAMIC PRESSURE	90kPa *
MAX DYNAMIC PRESSURE LOSS (ΔP)	500kPa
MAX UNBALANCED SUPPLY PRESSURE	2:1 Recommend +/-10%
MINIMUM FLOW RATE	12 l/min
COLD WATER BYPASS FLOW (HOT WATER FAILURE)	76 l/min (minimum)
DESIGN FLOW @ 70KPA DP EME30 - EYEWASH UNIT EMS120 - COMBO UNIT	30 l/min 120 l/min

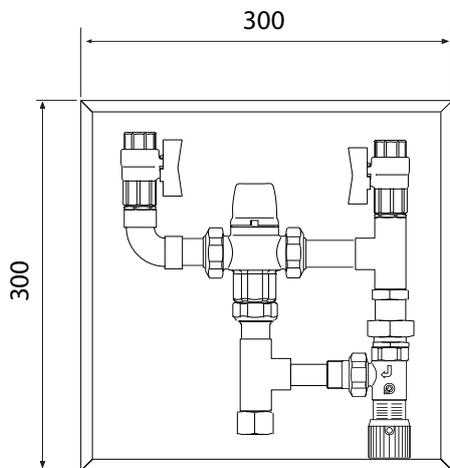
* Note that the assembly requires at least 70kPa pressure loss for maximum flow, and 20kPa extra for the differential bypass relief valve operation.

Sufficient pressure is ALSO required to provide a minimum of 210kPa after the assembly to the emergency fixtures to comply with AS4775.

DIAGRAM

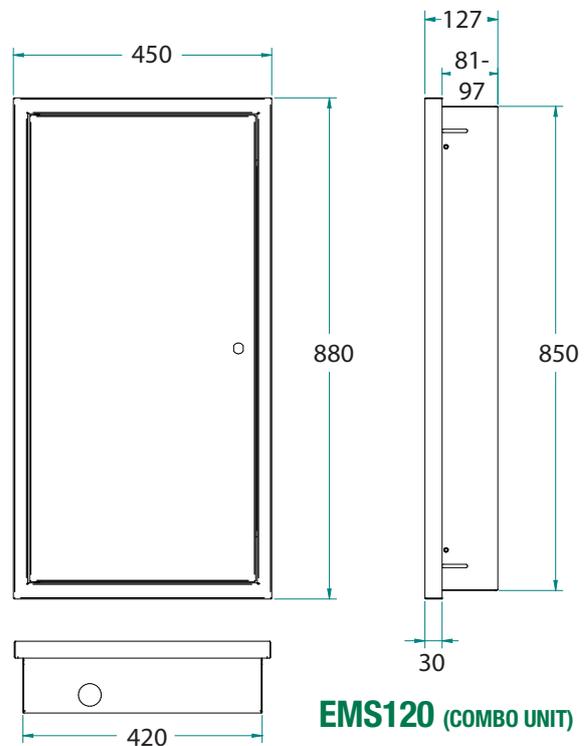
ENCLOSURE DETAILS

PART NUMBER	EME30	EMS120
CUTOUT HEIGHT	300mm	420mm
CUTOUT WIDTH	300mm	850mm
DEPTH	70mm	81 - 97mm + 30mm lid
HOT INLET	15mm	32mm
COLD INLET	15mm	32mm
TEPID OUTLET	15mm	32mm



EME30 (EYEWASH UNIT)

CODES	EYEWASH	COMBO SHOWER
IN SS BOX	EME30SS	EMS120SS
ON GAL PLATE	EME30B	EMS120B



EMS120 (COMBO UNIT)

All Valve
INDUSTRIES

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