

Technical specifications

Power Supply

Voltage	100 - 240 V AC
Frequency	50/60 Hz
Power consumption	2kW (max)
Fuse rating	15A

Operating conditions

Ambient temperature	+10 to +30 °C
Relative humidity	10% to 80%

Temperature

Block (with coolant at 5 °C & 2 L/min)	-30 to 180 °C
Block (with coolant at 15 °C and 2 L/min)	-25 to 180 °C
Maximum differential between zones	200 °C
Solution (with coolant at 5 °C and 2 L/min)	-25 to 175 °C
Solution (with coolant at 15 °C and 2 L/min)	-20 °C to 175 °C
Resolution (set point)	±1 °C
Resolution (reading)	0.1 °C
Accuracy	±1 °C
Monitoring frequency	2 seconds

Stirring

Overhead stirring

Maximum speed (intermittent)	1000 rpm
Maximum speed (continuous)	500 rpm
Minimum speed	100 rpm
Resolution	1 rpm
Torque	16 N·cm
Viscosity (max)	60000 mPa·s
Vacuum achievable	10mbar

Magnetic stirring

Maximum speed	1000 rpm
Minimum speed	100 rpm
Resolution	1 rpm

Cooling of the instrument

Coolant supply	Mains water or ethylene glycol mix (max 30%)
Max coolant temperature	35 °C (recommended 15 °C max)
Min coolant temperature	5 °C
Max flow rate	5 L/min
Min flow rate	2 L/min
Max coolant pressure	2 bar
Min coolant pressure	0.3 bar

If using a recirculator (chiller/thermoregulator)

Min cooling power at 15 °C	1.5 kW
Min cooling power at 0 °C	1.0 kW

Purge gas

Max flow rate	15 L/min
Min flow rate	3 L/min

Connections

Reaction Station

Mains socket	IEC C20
Mains cable	IEC C19
To Control Pad	9 way D type
Ethernet	RJ45
Coolant in/out	3/8" barb
Gas purge	3/8" barb
Internal drain	3/8" barb

Control Pad

Mains Socket
To Reaction Station
USB
Ethernet

Screw locking DC Jack Socket
9 way D type
2.0
RJ45

Materials of construction

Reaction Station

Top cover
Lower chassis
Reaction blocks
Gas feed nozzle
Coolant in/out connectors
Gas purge connector
Internal drain connector

Fluoropolymer coated aluminium
Epoxy painted steel
Anodised aluminium
316 stainless steel with nitrile O-rings
Acetal with internal 316 stainless steel & Buna seals
Zinc plated brass
Zinc plated brass

Control Pad

Top cover
Lower chassis
LCD screen

Epoxy painted aluminium
Epoxy painted steel
Capacitive glass

Compact Stirrer

Motor body
Stirrer guide body
Stirrer guide seal
Stirrer guide inner

Anodised aluminium
PTFE
Viton
Borosilicate glass, PEEK

Other

Reflux/Manifold Head
Reaction inserts
Easy-On caps
Reaction vessels
External temperature probes

Anodised aluminium
Anodised aluminium
PTFE
Borosilicate glass
316 stainless steel

Ingress protection

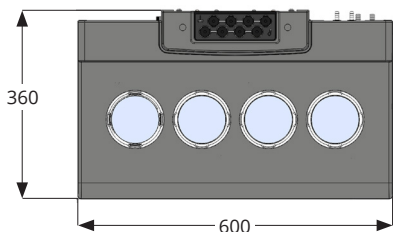
IP rating

IP2X

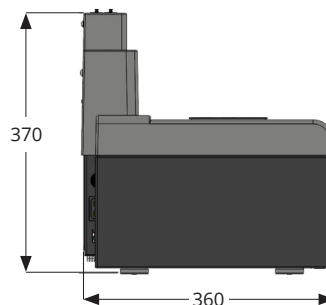
Reaction Station

600 (W) X 360 (D) X 370 (H)

Top view



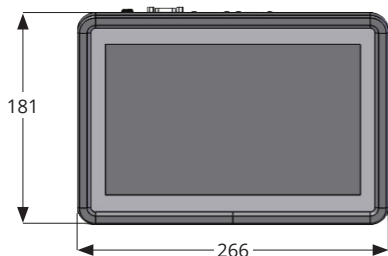
Side view



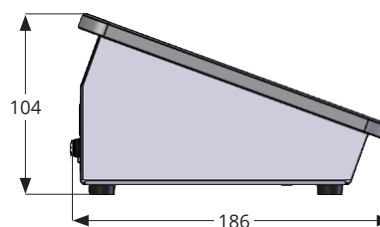
Control Pad

Touch-screen dimensions: 10" Display

Top view



Side view



Weights

Mya 4 Reaction Station
Mya Control Pad
Reflux Head
Manifold Head

33.2 kg
2.3 kg
8.8 kg
5.3 kg