

Incubator | shaking

multi-stack, 10°C - 60°C (refrigerated), 30-250 rpm, orbital motion



Orbital motion



Wise remote



2/4 independent Jog-Shuttle controller

IQ | OQ
available
page 12 for details



WIS-ML04 with 4x universal platforms (included)

WIS-ML multi-stack, 10-60°C, orbital

Ideal for:

- multi-use and wide range of sample testing under various temperature

Features:

- space saving design for large quantity samples with 2 or 4 independent shaking speed controller
- CFC free refrigerant (R-404A)
- control of refrigerator for preventing compressor overload
- advanced shaking mechanism provides quiet shaking and precise speed control
- RS232C interface for monitoring and controlling (WireRemote)
- durable and flexible plastic flask holder(optional)
- universal platforms included (2 or 4 according to model)
- magnetic packing door with pair glass, stainless steel interior and powder-coated body
- backlight LCD display
- CE certified and unique serial number for tracing

Safety mechanism:

- overheat and over-current protection
- sensor error detection
- automatic operation stop when door opens

Controller:

- digital fuzzy controller with **Jog-Shuttle-switch** (turn + push)

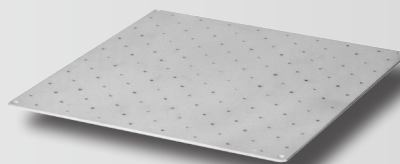
Model	WIS-ML02	WIS-ML04
Shaking stacks	2 stacks	4 stacks
Temperature range & accuracy	+10°C - 60°C, ±0.2°C at 37°C (refrigerated)	
Temperature uniformity & sensor	±1.0°C at 37°C, PT100 sensor	
Heater	1.5 kW	1.8 kW
Compressor	370 W	560 W
Shaking speed & stroke	30 - 250 rpm, 25 mm orbital motion	
Timer & alarm	99hr 59 min (delay & continuous run), error status and timer end	
Plate size	W 700 x D 600 mm	
Max. capacity of flask holder 50-100 ml	68 pcs. flask holder for 50 - 100 ml flasks (per platform)	
Max. capacity of flask holder 200-300 ml	36 pcs. flask holder for 200 - 300 ml flasks (per platform)	
Max. capacity of flask holder 500 - 1000 ml	21 pcs. flask holder for 500 - 1000 ml flasks (per platform)	
Internal dimensions (W x D x H)	700 x 700 x 1100 mm	700 x 700 x 1790 mm
External dimensions (W x D x H)	1290 x 850 x 1445 mm	1290 x 850 x 2125 mm
Packing size & gross weight	1500 x 1200 x 1750 mm, 397 kg	1500 x 1200 x 2350 mm, 555 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz	3 Phase AC 400V, 50/60 Hz
Power consumption	2,4 kW	3,2 kW
Order number 230V	DH.WIS05002	DH.WIS05004
Order number 120V	DH.WIS05102	DH.WIS05104
Order number 3 Phase	-	DH.WIS03004

Accessories: Suitable platforms, racks and flask holder can be found on page 79

Universal platforms

• suitable for shaking incubators **WIS**

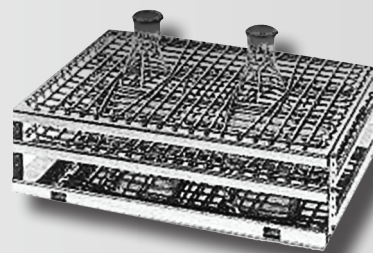
For device...	Measurements	Article	Order number
WIS-30 / WIS-30R	485 x 405 mm	SP630	DH.WIS504630
WIS-20 / WIS-20R	478 x 478 mm	SP600	DH.WIS504600
WIS-10 / WIS-10R / WIS-10RL	688 x 648 mm	SP610	DH.WIS504610
WIS-ML02 / WIS-ML04	645 x 645 mm	SP620	DH.WIS504620



Universal spring racks

• suitable for shaking incubators **WIS**

For device...	Measurements	Article	Order number
WIS-30 / WIS-30R	498x408xh135 mm	SR530	DH.WIS504530
WIS-20 / WIS-20R	483x483xh135 mm	SR500	DH.WIS504500
WIS-10 / WIS-10R / WIS-10RL	693x653xh135 mm	SR510	DH.WIS504510
WIS-ML02 / WIS-ML04	653x653xh135 mm	SR520	DH.WIS504520



Flask holder ABS or STS

• suitable for shaking incubators **WIS**

Type	For flasks...	Article	Order number
ABS flask holder	50-100 ml	FH100	DH.WIS504030
ABS flask holder	200-300 ml	FH250	DH.WIS504035
ABS flask holder	500-1000 ml	FH500	DH.WIS504040
STS wire spring flask holder	100 ml	FHS100	DH.WIS600100
STS wire spring flask holder	250 ml	FHS250	DH.WIS600250
STS wire spring flask holder	500 ml	FHS500	DH.WIS600500
STS wire spring flask holder	1000 ml	FHS1000	DH.WIS601000



ABS

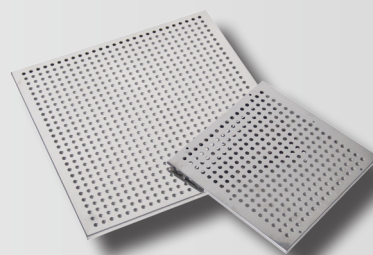
STS wire

Shaking incubators
WIS

Perforated shelves, stainless steel

• suitable for incubators / growth chambers **STH, STH-E**

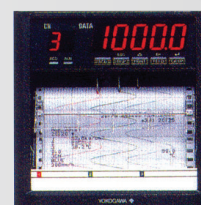
For device...	Measurements	Article	Order number
STH-155, STH-E155	470 x 480 mm	THS1155	DH.WTH11155
STH-305, STH-E305	590 x 580 mm	THS1305	DH.WTH11305
STH-420, STH-E420	720 x 640 mm	THS1420	DH.WTH11420
STH-800, STH-E800	970 x 980 mm	THS1800	DH.WTH11800



Temperature recorder and chart paper

• suitable for incubators / growth chambers **STH, STH-E**

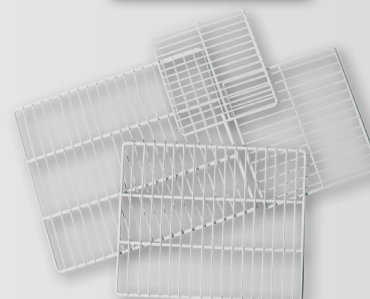
For device...	Recorder	Article	Order number
STH, STH-E	temperature, humidity (6 channels, 2 pens, paper)	WTH5100	DH.WTH05100
WTH5100	33 days	WTH5105	DH.WTH05105



PE-coated wire shelves, steel wire

• suitable for incubators / growth chambers **SWG**

For device...	Measurements	Article	Order number
SWG-450	640 x 620 mm	GCS450	DH.SWGC10450
SWG-1000	580 x 620 mm	GCS1000	DH.SWGC11000



Incubators / growth chambers
STH | STH-E | SWGC