DISINFECTION 09/07

PRO UV INOX

The Pro assortment consists of a complete range of industrial UV-C equipment. The units provide healthy, clear and safe water. Pro UV INOX purifiers are the driving force in any installation; they have the ability to keep the water free of algae, bacteria and fungi. Each Pro UV-C purifier is equipped with a control cabinet. There are four options which can be combined with a suitable Pro unit and several other options including a temperature sensor and a flow switch.

✓ Technical features

• Each unit is equipped with a AISI-316L stainless steel reactor

• Each unit is equipped with a UV-C control unit, combined with a basic Control Timer, Control Monitor or Control Monitor Plus. UV-C and temperature sensors are optional

• Easy installation and maintenance

Q Models

PRODUCT CODE	RECOMMENDED FLOW at 25mj/cm² m³/h	RECOMMENDED FLOW at 40mj/cm² m³/h	RECOMMENDED FLOW at 60mj/cm² m³/h	APPLICATION CONTROL SYSTEM
PRO-UV-40/76	3.1	2.4	1.6	A/B/C
PRO-UV-75/76-A	9.0	5.7	3.8	A/B/C
PRO-UV-75/114	13.5	8.4	5.6	A/B/C
PRO-UV-140/114	27.9	17.4	11.6	A/B/C
PRO-UV-140/76	17.9	11.2	7.4	A/B/C
PRO-UV-200/76	22	15.3	10.2	A/C
PRO-UV-200/154	37	32.5	21.7	A/C
PRO-UV-420/168	49	49	43.4	A/C/D
PRO-UV-400/204	85	74.7	49.8	A/D
PRO-UV-600/219	133	112.5	75	A/D
PRO-UV-975/306	367.9	229.9	153.3	A/D
PRO-UV-1950/306	531	452	301.4	A/D

* Capacity based on 250, 400, 600 J/M2, T10mm@ 254NM = 95% MPSSM average intensity. * Please add -A, -B, -C OR -D after the UV code for your choice of control system. You can choose the control system based on your requirements and applicability as per the table above.

PRODUCT CODE	UV-C LAMP POWER CONSUMPTION W	REACTOR Ø mm	REACTOR LENGTH mm	REACTOR SHAPE	CONNECTION	PKG	WEIGHT kg	VOLUME m³
PRO-UV-40/76	40	76	370	L	3/4" male thread	1	8	0.03
PRO-UV-75/76	75	76	655	L	3/4" male thread	1	4	0.04
PRO-UV-75-114	75	114	850	U	2" male thread	1	9	0.06
PRO-UV-140/114	140	114	850	U	2" male thread	1	9	0.05
PRO-UV-140/76	140	76	850	U	1.5" male thread	1	5	0.06
PRO-UV-200/76	200	76	1100	U	2" male thread	1	6	0.06
PRO-UV-200/154	200	154	1100	U	90 mm flange	1	19	0.15
PRO-UV-420/168	420	168	850	U	3" male thread	1	17	0.18
PRO-UV-400/204	400	204	1100	U	110 mm flange	1	26	0.12
PRO-UV-600/219	600	219	1100	U	140 mm flange	1	37	0.18
PRO-UV-975/306	975	306	1100	U	DN 250	1	69	1.71
PRO-UV- 1950/306	1950	306	1100	U	DN 250	1	77	1.71

DISINFECTION

SMART PIN TECHNOLOGY

The VGE Pro UV-C Purifiers are equipped with the unique Smart Pin Technology (SPT). This innovative system is a reliable way to integrate the UV-C lamp(s) in a safe, efficient and smart way in a reactor. The SPT makes it possible to replace the lamp safely, although the system remains filled with water. If the lamp is mistakenly left on during the replacement, it will switch off automatically as soon as it is removed from the socket. Due to the seal between the lamp socket and lamp, the system can be used in situations where IPx4 is required. The high-quality ceramic is an excellent electrical insulator and is resistant to corrosion. A visual observation of the operation of the lamp is no problem through various transparent parts.

✔ Benefits

- Prevents the release of harmful UV-C radiation
- Changing the UV-C lamp whilst water remains in the system
- Resistant to corrosion
- Splash proof

- Visual inspection for operation of the lamp
- Clamping system for optimal seal function
- Lamp replacement without tools

🔍 Pro control units

Each Pro UV-C purifier is equipped with a control cabinet. The following overview provides the advantages per control unit for a Pro UV-C purifier.

CONTROL UNIT	PRO UV BASIC A	PRO UV CONTROL TIMER B	PRO UV CONTROL MONITOR C	PRO UV CONTROL MONITOR PLUS D
ELECTRICAL BALLAST	✓	✓	✓	✓
MICROPROCESSOR CONTROLLED FUNCTIONS			✓	✓
UV MONITORING BY SENSOR			✓	✓
TEMPERATURE MONOTORING ON SENSOR				✓
TEMPERATURE MONOTORING ON BASE BOARD				✓
LAMP HOUR COUNTER		✓	✓	✓
ACTUAL LAMP CURRENT AND LAMP POWER				✓
SWITCH ON CYCLE COUNER			✓	✓
INTERLOCK INPUT FOR EXTERNAL FLOW SWITCH			✓	✓
INRUSH CURRENT LIMITATION				✓
LCD DISPLAY AND BUTTONS MOUNTED IN THE FRONT		✓	✓	✓
MAIN SWITCH			✓	✓
MULTI-COLOUR DISPLAY			✓	✓
POLYCARBONATE CABINET			✓	
ABS CABINET	✓	✓		
STEEL POWDER COATED CABINET				✓
ALARM FUNCTIONS UV TEMPERATURE FAILED LAMPS			✓	✓
STOP IF ERROR AND ALARM FUNCTION				✓
REMOTE SWITCH, INTERLOCK AND MAIN SWITCH				✓
MULTIPLE LANGUAGES			✓	✓
REALY CONTACTS			✓	✓
4-20MA SIGNAL INPUT /OUTPUT			✓	✓
LAMP/BALLST SAFETY MECHANISMS				✓
DIMENSION CONTROL UNIT	380 x 190 x 130 mm 378 x 278 x 180 mm 560 x 380 x 180 mm	350 x 100 x 180 mm	300 x 320 x 110 mm	450 x 300 x 210 mm 400 X 300 x 150 mm

DISINFECTION

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DISINFECTION

AQUA-ME_DATASHEET 09/07 - PRO UV INOX X/L 30/09 23

PRO UV HDPE

The Pro assortment consists of a complete range of industrial UV-C equipment. The units provide healthy, clear and safe water. Pro UV HDPE purifiers are the driving force in any installation; they have the ability to keep the water free of algae, bacteria and fungi. Each Pro UV-C purifier is equipped with a control cabinet. There are four options which can be combined with a suitable VGE Pro unit and several other options including a temperature sensor and a flow switch.

✓ Benefits

- Each unit is equipped with a HDPE reactor

- Each unit is equipped with a UV-C control unit, combination with a basic Control Timer, Control Monitor or Control Monitor Plus. UV-C and temperature sensors are optional

- Easy installation and maintenance

Q Models

PRODUCT CODE	RECOMMENDED FLOW at 25mj/cm² m³/h	RECOMMENDED FLOW at 40mj/cm² m³/h	RECOMMENDED FLOW at 60mj/cm² m³/h	APPLICATION CONTROL SYSTEM
PRO-HD-UV-75/110	13.5	8.4	5.6	A/B/C
PRO-HD-UV-140/110	22	15.1	10.1	A/B/C
PRO-HD-UV-200/110	22	20.4	13.6	A/C
PRO-HD-UV-200/160	37	29.4	19.6	A/C
PRO-HD-UV-400/200	79	68.1	45.4	A/D
PRO-HD-UV-600/225	129	100.6	67.1	A/D
PRO-HD-UV-975/315	338.4	211.5	141.0	A/D
PRO-HD-UV-1950/315	445	415.2	276.8	A/D

* Capacity based on 300, 400, 600 J/M2, T10mm@ 254NM = 95% MPSSM average intensity . * Please add -A, -B, -C OR -D after the UV code for your choice of control system. You can choose the control system based on your requirements and applicability as per the table.

PRODUCT CODE	UV-C LAMP POWER CONSUMPTION W	REACTOR Ø mm	REACTOR LENGTH mm	REACTOR SHAPE	CONNECTION	PKG	WEIGHT kg	VOLUME m³
PRO-HD-UV-75/110	75	110	850	U	2" male thread	1	4	0.05
PRO-HD-UV- 140/110	140	110	850	U	2" male thread	1	4	0.05
PRO-HD-UV-200/110	200	110	1100	U	3" male thread	1	4	0.15
PRO-HD-UV-200/160	200	160	1100	U	90 mm flange	1	8	0.15
PRO-HD-UV-400/200	2 X 200	200	1100	U	110 mm flange	1	15	0.18
PRO-HD-UV-600/225	3 X 200	225	1100	U	140 mm flange	1	18	0.20
PRO-HD-UV-975/315	3 X 200	315	1670	U	160 mm flange	1	82	1.71
PRO-HD-UV-1950/315	3 X 200	315	1670	U	225 mm flange	1	85	1.71

DISINFECTION

SMART PIN TECHNOLOGY

The Pro UV-C Purifiers are equipped with the unique Smart Pin Technology (SPT). This innovative system is a reliable way to integrate the UV-C lamp(s) in a safe, efficient and smart way in a reactor. The SPT makes it possible to replace the lamp safely, although the system remains filled with water. If the lamp is mistakenly not turned off during the replacement, it will switch off automatically as soon as it is removed from the socket. Due to the seal between the lamp socket and lamp, the system can be used in situations where IPx4 is required. The high-quality ceramic is an excellent electrical insulator and is resistant to corrosion. A visual observation of the operation of the lamp is no problem through various transparent parts.

✔ Benefits

- Prevents the release of harmful UV-C radiation
- Changing the UV-C lamp whilst water is in the system
- Resistant to corrosion
- Splash proof

- Visual inspection for operation of the lamp
- Clamping system for optimal seal function
- Lamp replacement without tools

Pro control units

Each Pro UV-C purifier is equipped with a control cabinet. The following overview provides the advantages per control unit for a Pro UV-C purifier.

CONTROL UNIT	PRO HD UV BASIC A	PRO HD UV CONTROL TIMER B	PRO HD UV control monitor C	PRO HD UV control monitor Plus D
-				
ELECTRICAL BALLAST	✓	✓	✓	✓
MICROPROCESSOR CONTROLLED FUNCTIONS	-	-	✓	✓
UV MONITORING BY SENSOR	-	-	✓	✓
TEMPERATURE MONOTORING ON SENSOR	-	-	-	✓
TEMPERATURE MONOTORING ON BASE BOARD	-	-	-	✓
LAMP HOUR COUNTER	-	✓	✓	✓
ACTUAL LAMP CURRENT AND LAMP POWER	-	-	-	✓
SWITCH ON CYCLE COUNER	-	-	✓	✓
INTERLOCK INPUT FOR EXTERNAL FLOW SWITCH	-	-	✓	✓
INRUSH CURRENT LIMITATION	-		-	✓
LCD DISPLAY AND BUTTONS MOUNTED IN THE FRONT	-	✓	✓	✓
MAIN SWITCH	-	-	✓	✓
MULTI-COLOUR DISPLAY	-	-	✓	✓
POLYCARBONATE CABINET	-	-	✓	-
ABS CABINET	✓	✓	-	-
STEEL POWDER COATED CABINET	-	-	-	✓
ALARM FUNCTIONS UV TEMPERATURE FAILED LAMPS	-	-	✓	✓
STOP IF ERROR AND ALARM FUNCTION	-	-	-	✓
REMOTE SWITCH, INTERLOCK AND MAIN SWITCH	-	-	-	✓
MULTIPLE LANGUAGES	-	-	✓	✓
REALY CONTACTS	-	-	✓	✓
4-20MA SIGNAL INPUT /OUTPUT	-	-	✓	✓
LAMP/BALLST SAFETY MECHANISMS	-	-	-	✓
DIMENSION CONTROL UNIT	380 x 190 x 130 mm 378 x 278 x 180 mm 560 x 380 x 180 mm	350 x 100 x 180 mm	300 x 320 x 110 mm	450 x 300 x 210 mm 400 x 300 x 150 mm

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DISINFECTION

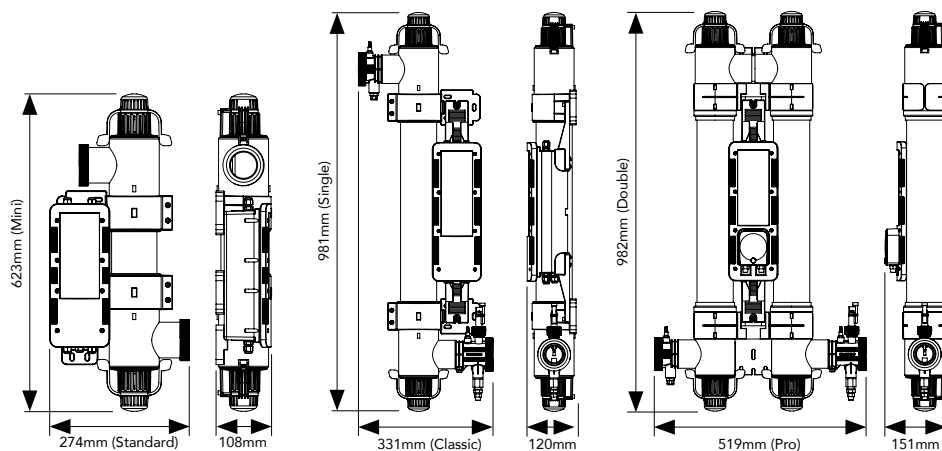AQUA_ME_DATASHEET 09/08 – PRO.UV HDPE / 1.30/09.23

PRO POOL UV

The super reflective properties of the VULCAN ProPool UV, optimises UV-C radiation and dramatically increases performance.

✓ Technical features

- Highest UV reflective index on the market equating to supreme efficiency
- Titanium reaction chamber is extremely repellent, maintaining UV reflectivity
- No harmful gases or by-products produced
- Neutralises bacteria, viruses, algae and fungi that traditional chemicals cannot
- Optional smart peristaltic dosing system for chlorine/hydrogen peroxide

- Powerful sterilisation and eliminates the smell of chlorine
- Average lamp life expectancy: 2 years
- Equipped with intelligent lamp life indicator
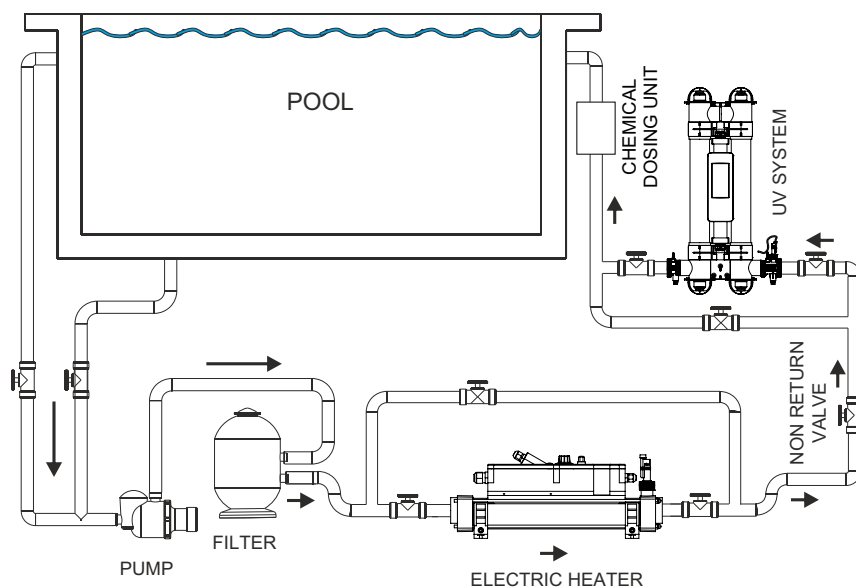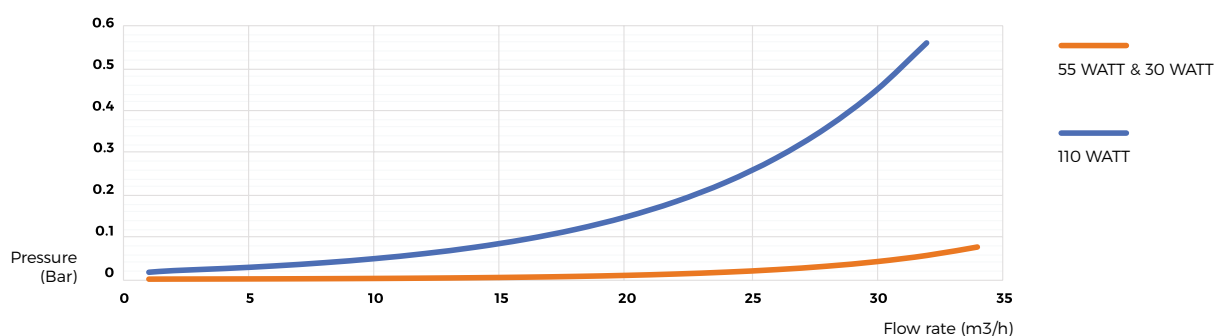- Salt and sea water compatible

Dimensions

623mm (Mini)
274mm (Standard)
108mm
981mm (Single)
331mm (Classic)
120mm
982mm (Double)
519mm (Pro)
151mm

Models

MODEL	MAX. POOL VOLUME m³	FEATURES	PKG	NET WEIGHT kg	GROSS WEIGHT kg	GROSS VOLUME m³
V-PP1-30	30	Basic version	1	5.9	7.8	0.08
V-PP1-55	55	Basic version	1	6.4	9	0.11
V-PP1-110	110	Basic version	1	10.2	13.7	0.15
V-PP2-30-UK	30	Analogue lamp life indicator & reset switch	1	6.1	8	0.08
V-PP2-55-UK	55	Analogue lamp life indicator & reset switch	1	6.6	9.2	0.11
V-PP2-110-UK	110	Analogue lamp life indicator & reset switch	1	10.4	13.9	0.15
V-PP3-30-UK	30	Digital lamp life countdown with intelligent dosing pump	1	6.4	8.3	0.08
V-PP3-55-UK	55	Digital lamp life countdown with intelligent dosing pump	1	6.9	9.6	0.11
V-PP3-110-UK	110	Digital lamp life countdown with intelligent dosing pump	1	10.9	14.3	0.15

* Without flow switch, lamp life indicator & reset switch

DISINFECTION

System setup

POOL

CHEMICAL DOSING UNIT

UV SYSTEM

NON RETURN VALVE

PUMP

FILTER

ELECTRIC HEATER

Pressure drop

Pressure (Bar)

Flow rate (m3/h)

55 WATT & 30 WATT

110 WATT

Specifications

TYPE	DESCRIPTION
POWER SUPPLY	Single phase 100V ~ 240V
MIN. FLOW RATE	4 m³/h
MAX. FLOW RATE	Mini Tube: 12,000 litres per hour; 12m³/h Single Tube: 16,000 litres per hour; 16 m³/h Double Tube: 32,000 litres per hour; 32 m³/h
MAX. POOL SIZE	Mini Tube: 30,000 liters; 30m³ Single Tube: 55,000 litres; 55m³ Double Tube: 110,000 litres;110m³
MAX. POWER CONSUMPTION	Mini Tube: 40W Single Tube: 64W Double Tube: 128W
LAMP	Low pressure / high output
LAMP LIFE	9,000 hours
DOSING RATE	Exceeds the equivalent of 30mj/cm² at max. flow rate
INTERNATIONAL PROTECTION MARKING	IP64
FREQUENCY	50/60 Hz
WORKING PRESSURE	3 Bar maximum
WATER CONNECTIONS	2'' / 63mm stepped ABS unions + reducers 1½'' / 50mm
SALT WATER	100% sea water safe
MOUNTING	Floor or wall mounting
OXIDISATION PROCESSES	UV

DISINFECTION

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DISINFECTION

AQUA_ME_DATASHEET 09/04 – PRO-POOL UV V1_30.09.23

HR UV-C

The super reflective properties of the H.R. UV-C optimises UV-C radiation and dramatically increases performance.
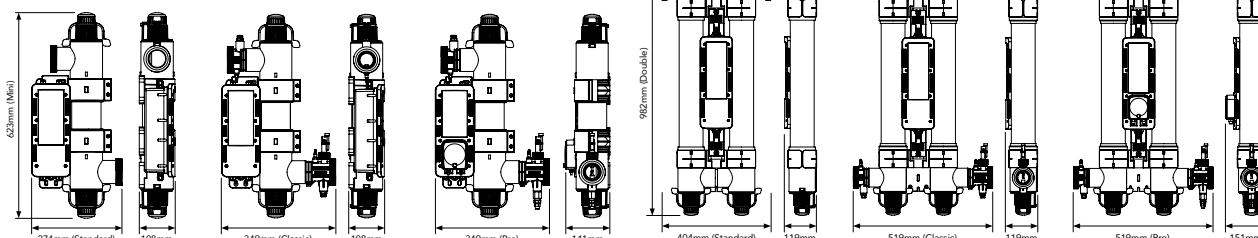
✓ Technical features

- Highest UV reflective index on the market equating to supreme efficiency
- E-PTFE reaction chamber is extremely repellent, maintaining UV reflectivity
- Up to 95% reflection amplifying the exposure of microorganisms to UV
- No harmful gases or by-products produced
- Neutralises bacteria, viruses, algae and fungi that traditional chemicals cannot
- Optional smart peristaltic dosing system for chlorine/ hydrogen peroxide (Pro model only)
- Powerful sterilisation and eliminates the smell of chlorine
- Average lamp life expectancy: 2 years
- Equipped with intelligent lamp life indicator (Classic & Pro models only)
- Sea and salt chlorinated water compatible
- Available in three sizes: Mini (30m³), Single (55m³) and Double (110m³)
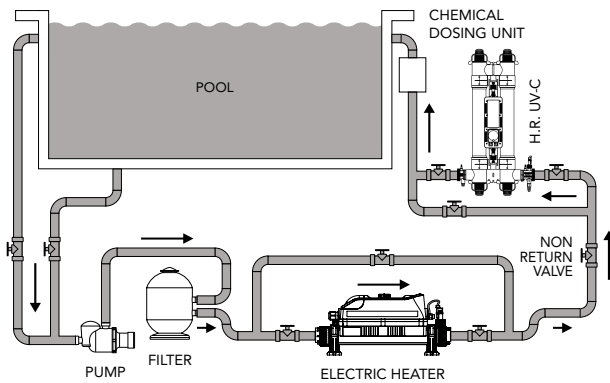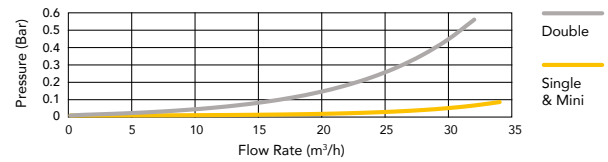- Models: Standard, Classic and Pro

Dimensions

981mm (Single)

216mm (Standard) | 120mm | 331mm (Classic) | 120mm | 331mm (Pro) | 150mm

982mm (Double)

404mm (Standard) | 119mm | 519mm (Classic) | 119mm | 519mm (Pro) | 151mm

Dimensions

623mm (Mini)

274mm (Standard) | 108mm | 349mm (Classic) | 108mm | 349mm (Pro) | 141mm

🔍 Models

MODEL	100~240V 1-PHASE	LAMP OUTPUT W	MAX. POOL VOLUME m³	FEATURES	PKG	NET WEIGHT kg	GROSS WEIGHT kg	GROSS VOLUME m³
HR-30-B	MINI STANDARD	30	30	STANDARD FEATURES	1	4.53	6.06	0.0639
HR-30-UK	MINI CLASSIC	30	30	FLOW SWITCH, ANALOGUE LAMP LIFE INDICATOR & RESET SWITCH	1	4.83	6.70	0.0639
HRP-30-UK	MINI PRO	30	30	FLOW SWITCH, DIGITAL LAMP LIFE COUNTDOWN & INTELLIGENT DOSING PUMP	1	5.44	6.92	0.0639
HR-55-B	SINGLE STANDARD	55	55	STANDARD FEATURES	1	4.63	6.44	0.0741
HR-55-UK	SINGLE CLASSIC	55	55	FLOW SWITCH, ANALOGUE LAMP LIFE INDICATOR & RESET SWITCH	1	6.67	9.05	0.0996
HRP-55-UK	SINGLE PRO	55	55	FLOW SWITCH, DIGITAL LAMP LIFE COUNTDOWN & INTELLIGENT DOSING PUMP	1	6.62	9.01	0.0996
HR-110-B	DOUBLE STANDARD	110	110	STANDARD FEATURES	1	7.66	10.01	0.0987
HR-110-UK	DOUBLE CLASSI	110	110	FLOW SWITCH, ANALOGUE LAMP LIFE INDICATOR & RESET SWITCH	1	9.45	12.45	0.1393
HRP-110-UK	DOUBLE PRO	110	110	FLOW SWITCH, DIGITAL LAMP LIFE COUNTDOWN & INTELLIGENT DOSING PUMP	1	10.01	13.01	0.1393

DISINFECTION

System setup

POOL

CHEMICAL
DOSING UNIT

H.R. UV-C

NON
RETURN
VALVE

PUMP   FILTER   ELECTRIC HEATER

Pressure drop

Double

Single
& Mini

Specifications

Power supply:	Single Phase 100V ~ 240V
Min. flow rate:	1.5m³/h
Max. flow rate:	Mini: 12,000 litres per hour; 12m³/h
	Single: 16,000 litres per hour; 16m³/h
	Double: 32,000 litres per hour; 32m³/h
Max. pool size:	Mini: 30,000 litres; 30m³
	Single: 55,000 litres; 55m³
	Double: 110,000 litres; 110m³
Max. power consumption:	Mini: 40W
	Single: 64W
	Double: 128W
Lamp:	Lamp: Low pressure/high output

Lamp life:	9,000 hours
Dosing rate:	Exceeds the equivalent of 30mj/cm²
	at maximum flow rate
Ingress protection rating:	IP64
Frequency: 50/60 Hz	50/60 Hz
Working pressure:	3 Bar maximum
Water connections:	2"/63mm stepped ABS unions
	+ reducers 1½"/50mm
Salt water:	100% chlorinated salt and sea water safe
Mounting:	Vertical or horizontal wall mounting
Oxidisation processes:	UV

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DISINFECTION

DISINFECTION 09/06
UV SYSTEM INDIUM

✓ Technical features

- Equipped with standard connections with BSP thread for maximum compatibility and easy installation

- Tubes of ultrapure quartz, obtained by extrusion and having a minimum permeability of 95% to guarantee the maximum efficiency of germicidal lamps

- The locking connectors, as well the disinfection chambers, are made with AISI-316L stainless steel

- Germicidal lamps with new technology Indium+, high efficiency and long life. These lamps utilize a special combination of alloys to control the internal mercury vapor pressure across a wide temperature range. The result is maximum UV intensity for virtually all applications

- Power supply: 230V AC -50/60Hz

🔍 Models

	SH i+10	SH i+20	SH i+40	SH i+60	SH i+100	SH i+200
MAX. WORK TEMP	35°C	35°C	35°C	35°C	35°C	35°C
WORK PRESSURE	8 bar	8 bar	8 bar	8 bar	8 bar	8 bar
FLOW RATE	10000 lt/h	20000 lt/h	40000 lt/h	60000 lt/h	100,000 lt/h	200,000 lt/h
POWER ABSORBED	210 Watt	420 Watt	820 Watt	1220 Watt	1600 Watt	2660 Watt
LAMPS	1x200W	2x200W	4x200W	6x200W	4x330W	8x320W
LAMPS LIFE	16000 Hours	16000 Hours	16000 Hours	16000 Hours	16000 Hours	16000 Hours
UV DOSE	>400 mw/cm²	>400 mw/cm²	>400 mw/cm²	>400 mw/cm²	>400 mw/cm²	>400 mw/cm²
CHAMBER MATERIAL	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316	S.Steel AISI316
DRAIN	1/4"	1/4"	1/2"	1/2"	1"	1"
PORT SIZE IN-OUT	2" Gas M	2 1/2" Gas M	DN80	DN100	DN125	DN200
TOTAL HOUR COUNTER	Yes	Yes	Yes	Yes	Yes	Yes
UV METER	Optional	Optional	Optional	Optional	Optional	Optional
TEMPERATURE CONTROL	Yes	Yes	Yes	Yes	Yes	Yes
FAULTS ALERT	Yes	Yes	Yes	Yes	Yes	Yes
STATUS LAMP CONTROL	Yes	Yes	Yes	Yes	Yes	Yes
IP CONTROL	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
WIDTH	155 mm	340 mm	280 mm	280 mm	280 mm	356 mm
HEIGHT	945 mm	945 mm	1130 mm	1130 mm	2000 mm	2000 mm
DEPTH	95 mm	95 mm	390 mm	390 mm	280 mm	356 mm
PACKIING	1	1	1	1	1	1
WEIGHT	15	25	35	50	60	75
VOLUME	0.015	0.033	0.135	0.135	0.172	0.278

PS: Add –W to the code to include the wiping mechanism system for the above

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