

# DATASHEET IAM TS NA

## A. DIMENSIONS

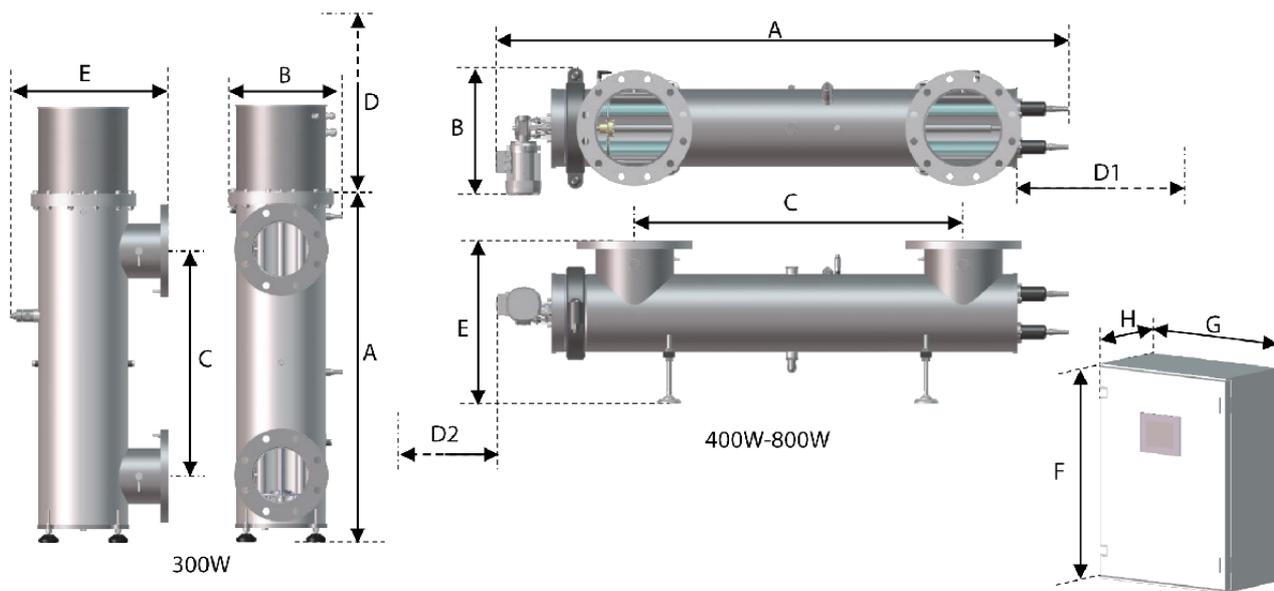


Image non-contractual.

Designation	Unit	IAM2273 300W	IAM4273 300W	IAM6273 300W	IAM4273 400W	IAM6273 400W	IAM8323 400W	IAM6355 800W	IAM8406 800W
<b>REACTOR</b>									
A) Full length	mm	1341	1341	1341	1994	1994	1994	1994	2000
B) Width	mm	368	368	368	436	436	446.5	514	587
C) Fixation spacing	mm	693	693	693	1140	1140	1050	1000	975
D) Service spacing	mm	1050	1050	1050	-	-	-	-	-
D1) Service space	mm	-	-	-	1570	1570	1570	1590	1590
D2) Service space	mm	-	-	-	150	150	150	150	150
E) Depth	mm	415	415	415	573	573	608	684	709
Type of connection	-	Flanges							
Connection	-	DN150	DN200	DN200	DN250	DN250	DN300	DN350	DN400
Position I/O	-	U	U	U	U	U	U	U	U
<b>CABINET</b>									
F) Height	mm	747	847	847	847	847	1052	1052	1000
G) Width	mm	536	636	636	636	636	852	852	1000
H) Depth	mm	300	300	300	300	300	350	350	420

## B. GENERAL DESCRIPTION

Designation	Unit	IAM2273 300W	IAM4273 300W	IAM6273 300W	IAM4273 400W	IAM6273 400W	IAM8323 400W	IAM6355 800W	IAM8406 800W
Certifications / Approvals	-	CE							
<b>ENVIRONMENT OF USE</b>									
Place	-	Interior in technical room							
Minimum ambient Temperature	°C	+5	+5	+5	+5	+5	+5	+5	+5
Maximum ambient Temperature	°C	+40	+40	+40	+40	+40	+40	+40	+40
Maximum relative humidity	-	80% non condensating							
<b>WATER QUALITY</b>									
Water Temperature	°C	5 to 60							
Transmittance range on 10mm	-	>80%	>80%	>80%	>80%	>80%	>80%	>80%	>80%
<b>REACTOR</b>									
Material	-	SS316L							
Finishing	-	Sand Blasted							
Volume	l	58,5	58,5	58,5	105	105	145	178	226
Weight	kg	76,5	83	84	130	140	150	185	195
Drain at high point (cap)	-	1/4"	1/4"	1/4"	1"	1"	1"	1"	1"
Drain at low point (cap)	-	1/4"	1/4"	1/4"	1"	1"	1"	1"	1"
Sampling valves	-	Upstream downstream							
Inlet/Outlet chemical cleaning	-	1"	1"	1"	1"	1"	1"	1"	1"
Max Service Pressure	bar	10	10	10	10	10	10	10	10
Standard mounting	-	Vertical	Vertical	Vertical	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
<b>CABINET</b>									
Material	-	Polyester							
Cabinet/Reactor cable length	m	5	5	5	10	10	10	10	10
Weight	kg	33	35	37	35	37	64	76	99
Cabinet ventilating	Hz	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Power supply	V	220-240	220-240	220-240	220-240	220-240	380-415	380-415	380-415
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Type / gauge of power cable	mm <sup>2</sup>	3G1,5	3G1,5	3G1,5	3G1,5	3G2,5	5G1,5	5G2,5	5G2,5
Amperage	A	2.54-2.33	5.18-4.75	7.93-7.27	7.97-7.31	12.2-11.18	5.99-5.49	8.08-7.4	12.36-11.32
Power	W	547	1095	1642	1684	2526	3368	5106	6809
Differential protection	-	30 mA							
Protection	-	10A	10A	10A	10A	16A	10A	16A	16A
Trigger curve	-	C	C	C	C	C	D	D	D
Ingress Protection	-	IP55	IP55	IP54	IP54	IP54	IP54	IP54	IP54
<b>UV LAMPS</b>									
Number of lamps	-	2	4	6	4	6	8	6	8
Power unitary	W	270	270	270	400	400	400	800	800
Type of lamp	-	Amalgam							
UV Power unitary	W	85	85	85	150	150	150	260	260
Total UV Power	W	170	340	510	600	900	900	1560	2080
Lifetime	h	13 000	13 000	13 000	16 000	16 000	16 000	16 000	16 000

## C. MONITORING

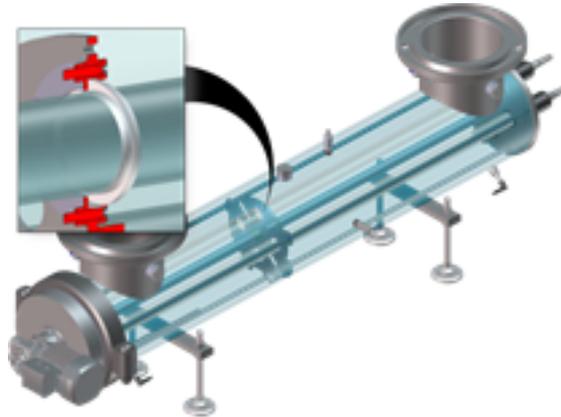


Designation	
Interface	Touch screen 5.7inches
Screens	Process, Menu, Settings, System, Ballasts / Lamps, Alarms, Event, Curves
Data	UVC radiation in% or W / m <sup>2</sup> or mJ / cm <sup>2</sup> , Cabinet / reactor temperature in ° C, Lamp and system hour meters, System start-up counter, Power regulation level.
Norm UV sensor with measurement window	Reads the UVC radiation of the device.
Temperature sensor	Allows reading of the reactor temperature from 0 to 73 ° C
4-20mA Output UV irradiance	4-20mA output signal copying the UV sensor, 0 W / m <sup>2</sup> = 4mA, Sensor Caliber = 20mA
4-20mA Output Temperature	4-20mA output signal copied from the reactor temperature sensor, 0 ° C = 4mA, 73 ° C = 20mA
Input Flow 4-20mA	Used to retrieve the flow value in the device (Customer Flow Meter).
Output General Alarm contact	Alarm contact grouping all UV alarms, cabinet temperature, reactor temperature, flow controller or flowmeter. The contact opens in the event of an alarm.
Output Alarm contact 1	Configurable alarm contact, choice between UV alarm, cabinet temperature, reactor temperature, flow controller or flowmeter. The contact opens in the event of an alarm.
Output Alarm contact 2	same as Alarm contact 1
Output Warning contact	Warning contact grouping the UV warning, cabinet temperature and reactor, flow controller and flowmeter. The contact opens in the event of an alarm.
Data outputs contact	12-24Vdc, 90-250Vac, 3A
Power dimming	The device adapts-reduces the electric power of the lamps to obtain the necessary dose.
Remote (ON/OFF lamps)	Allows remote control of the device with a potential free switch.
Alarms, events, data storage.	Alarms, events and sensor data are stored on a USB stick.
Communication	ModbusTCP communication protocol, allows you to read the data in real time and control the device remotely.
DIMMING MODES	
Manual dimming	Adapts the power of lamps from 50 to 100%
Auto/UV Dimming	Adapts the power of the lamps according to the UV radiation read by the sensor.
Auto Flow/UV Dimming	Adapts the power of the lamps according to the UV radiation read by the sensor correlate to the flow rate given by the flow meter of the customer.

## D. POSSIBLE OPTIONS

Designation	IAM2273 300W	IAM4273 300W	IAM6273 300W	IAM4273 400W	IAM6273 400W	IAM8323 400W	IAM6355 800W	IAM8406 800W
Air / air heat exchanger on electrical box and IP55	not concerned	not concerned	OPT014992	OPT014992	OPT014992	OPT014992	OPT014992	OPT014993
Feet: horizontal mounting	OPT003669	OPT003669	OPT003669	Included	Included	Included	Included	Included
PN16	OPT008862	OPT008862	OPT008862	OPT008862	OPT008862	OPT008863	OPT008863	OPT008863
Cable lengths	>=5m and =<30m	>=5m et =<20m	>=5m et =<20m					
ACCESSORIES								
lamp protection cover	ASM008843	ASM008843	ASM008843	ASM008843	ASM008843	ASM600816	ASM008844	ASM008845
Motor cleaning protection cover	ASM007822	ASM007822	ASM007822	ASM007822	ASM007822	ASM007822	ASM007822	ASM007822
Protection cover for UV sensor, temperature and limit switch	ASM007530	ASM007530	ASM007530	ASM007530	ASM007530	ASM007530	ASM007530	ASM007530

## E. CLEANING SYSTEM OF QUARTZ SLEEVES



### CLEANING WITH SCRAPER

Auto with motor:

The automatic cleaning system is designed to reduce the formation of organic and inorganic deposits on quartz sleeves.

It uses reinforced Teflon rings mounted on a stainless steel trolley to scrape the surface of the quartz sleeves of each lamp.

The automatic system ensures the cleaning at predetermined and configurable intervals by means of a trapezoidal screw driven by an electric motor by performing a round trip all along the quartz sleeves.

Unlike chemical cleaning, scraping operations that do not require lamp shutdown and hydraulic isolation of the UV reactor are carried out during operation of the UV device.

Benefits:

The cleaning system minimizes the fouling of the quartz sleeves.

Provides a constant UV dose.

Operates in line while lamps perform disinfection, thus reducing downtime.

Can be set to clean lamp sleeves at adjustable intervals of one hour (Auto only).

Manual cleanings with chemical cleaning agents previously frequent become exceptional.