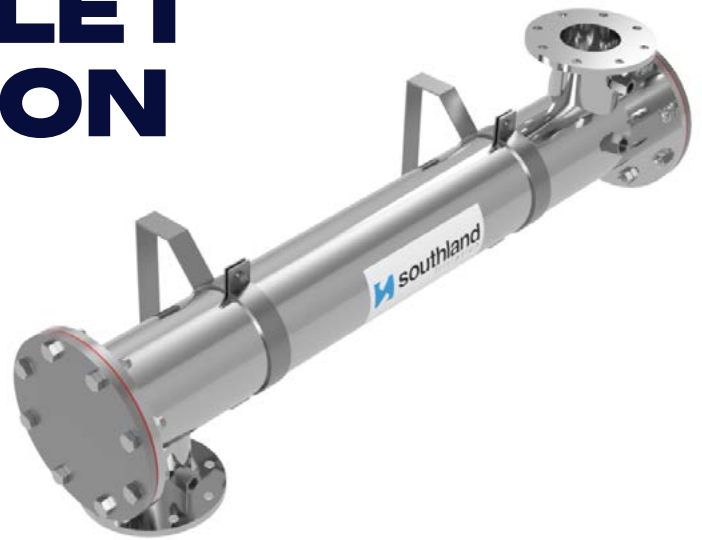


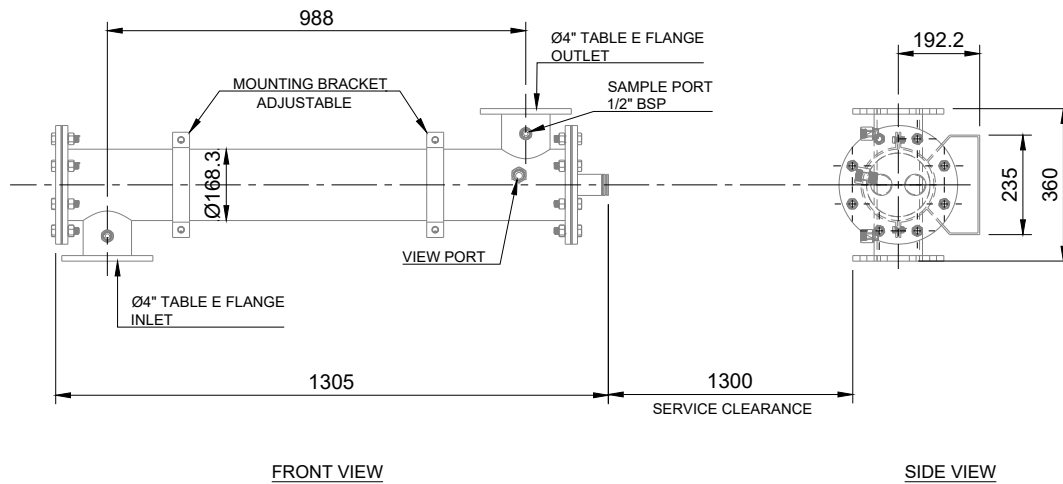
**SV60-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



ISOMETRIC VIEW



- STANDARD NOTES:
- 1) SOUTHLAND FILTRATION SHALL SUPPLY AND INSTALL ALL EQUIPMENT AND PIPE WORK WITHIN THE BATTERY LIMITS STATED IN THE DRAWINGS UNLESS NOTED OTHERWISE.
  - 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH ASINZS 3500.
  - 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER (OTHERS) UNLESS NOTED OTHERWISE.
  - 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
  - 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
  - 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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REVISION NO	DESCRIPTION	DATE	DRAWN	ENGINEER	AUTHORISED
0	FOR INFORMATION ONLY	27/03/2024	JM	DM	AC

INFORMATION	
DRAWING NUMBER	SOUTHLAND FILTRATION
REVISION	0
CAD FILE	-
SCALE	1:10
SHEET SIZE	A3

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN SV60-F
TITLE	GENERAL ARRANGEMENT

# SPECIFICATIONS

## PRODUCT CODE

SV60-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	1074 L/m (17.9 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	763.2 L/m (12.72 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	636.6 L/m (10.61 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	478.2 L/m (7.97 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" (100mm) Table E flange
Reactor Volume (L)	22L
Reactor Length Overall (~mm)	1,310mm
Space Required for Servicing (~mm)	1,300 mm
Reactor Dry Weight (Kg)	36kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	180W
UV-C Output (W)	57W
Number of Lamps (Each Unit)	2ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz
Power Consumption (W)	400W
Power Box Dimensions (mm)	400 x 300 x 200 mm
Power Box Weight (Kg)	14kg
IP Rating	IP65
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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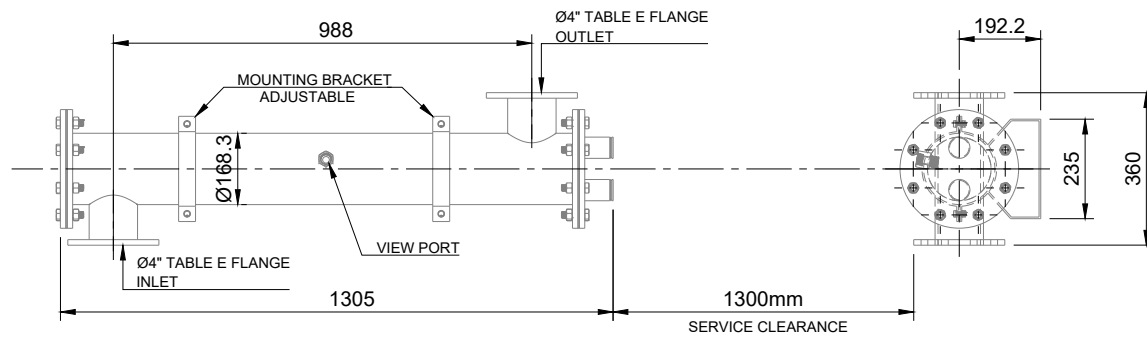
**SV70-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



ISOMETRIC VIEW



FRONT VIEW

SIDE VIEW

STANDARD NOTES:

- 1) SOUTHLAND FILTRATION SHALL SUPPLY AND INSTALL ALL EQUIPMENT AND PIPE WORK WITHIN THE BATTERY LIMITS STATED IN THE DRAWINGS UNLESS NOTED OTHERWISE.
- 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH AS/NZS 3500.
- 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER (OTHERS) UNLESS NOTED OTHERWISE.
- 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
- 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
- 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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REVISION NO	DESCRIPTION	DATE	DRAWN	ENGINEER	AUTHORISED
0	FOR INFORMATION ONLY	30/03/2024	JM	BM	AC

INFORMATION

DRAWING NUMBER	SOUTH LAND FILTRATION
SCALE	1:10
SHEET SIZE	A3

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN DV70-F
TITLE	GENERAL ARRANGEMENT

# SPECIFICATIONS

## PRODUCT CODE

SV70-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	1430.4 L/m (23.84 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	1018.2 L/m (16.97 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	847.8 L/m (14.13 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	636.6 L/m (10.61 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" (100mm) Table E flange
Reactor Volume (L)	22L
Reactor Length Overall (~mm)	1,310mm
Space Required for Servicing (~mm)	1,300 mm
Reactor Dry Weight (Kg)	36kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	240W
UV-C Output (W)	76W
Number of Lamps (Each Unit)	2ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz
Power Consumption (W)	540W
Power Box Dimensions (mm)	600 x 400 x 200 mm
Power Box Weight (Kg)	14kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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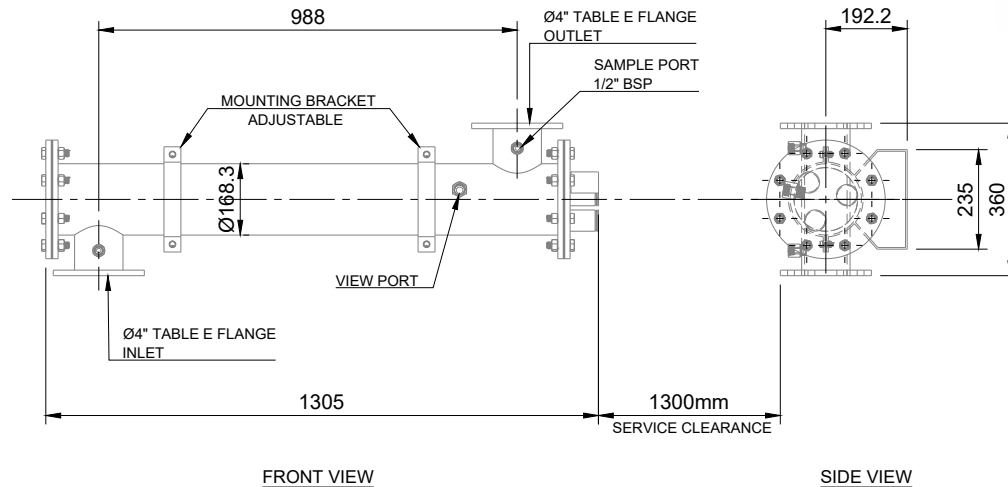
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**SV90-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



**STANDARD NOTES:**

- 1) SOUTHLAND FILTRATION SHALL SUPPLY AND INSTALL ALL EQUIPMENT AND PIPE WORK WITHIN THE BATTERY LIMITS STATED IN THE DRAWINGS UNLESS NOTED OTHERWISE.
- 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH AS/NZS 3500.
- 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER (OTHERS) UNLESS NOTED OTHERWISE.
- 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
- 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
- 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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REVISION NO	DESCRIPTION	DATE	DRAWN	ENGINEER	AUTHORISED
0	FOR INFORMATION ONLY	01/01/2020	JM	BM	AC

**INFORMATION**

SOUTHLAND FILTRATION

DRAWING NUMBER

SCALE

REVISION

SHEET SIZE

CLIENT

SOUTHLAND FILTRATION

PROJECT

SKAN SV90-F

TITLE

GENERAL ARRANGEMENT

# SPECIFICATIONS

## PRODUCT CODE

SV90-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	1551.6 L/m (25.86 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	1102.8 L/m (18.38 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	919.8 L/m (15.33 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	690 L/m (11.5 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" (100mm) Table E flange
Reactor Volume (L)	22.4L
Reactor Length Overall (~mm)	1,315mm
Space Required for Servicing (~mm)	1,300 mm
Reactor Dry Weight (Kg)	30kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	180W
UV-C Output (W)	57W
Number of Lamps (Each Unit)	3ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz, 2.7A
Power Consumption (W)	615W
Power Box Dimensions (mm)	600 x 400 x 200 mm
Power Box Weight (Kg)	16kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

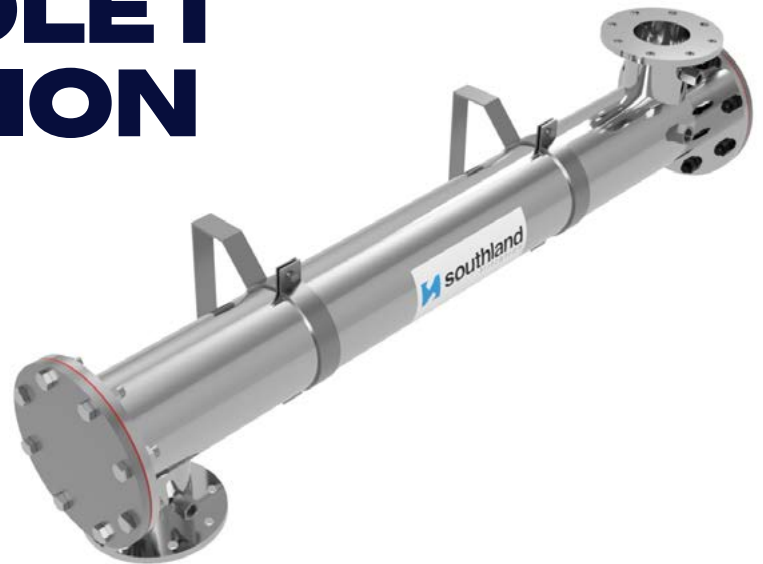
## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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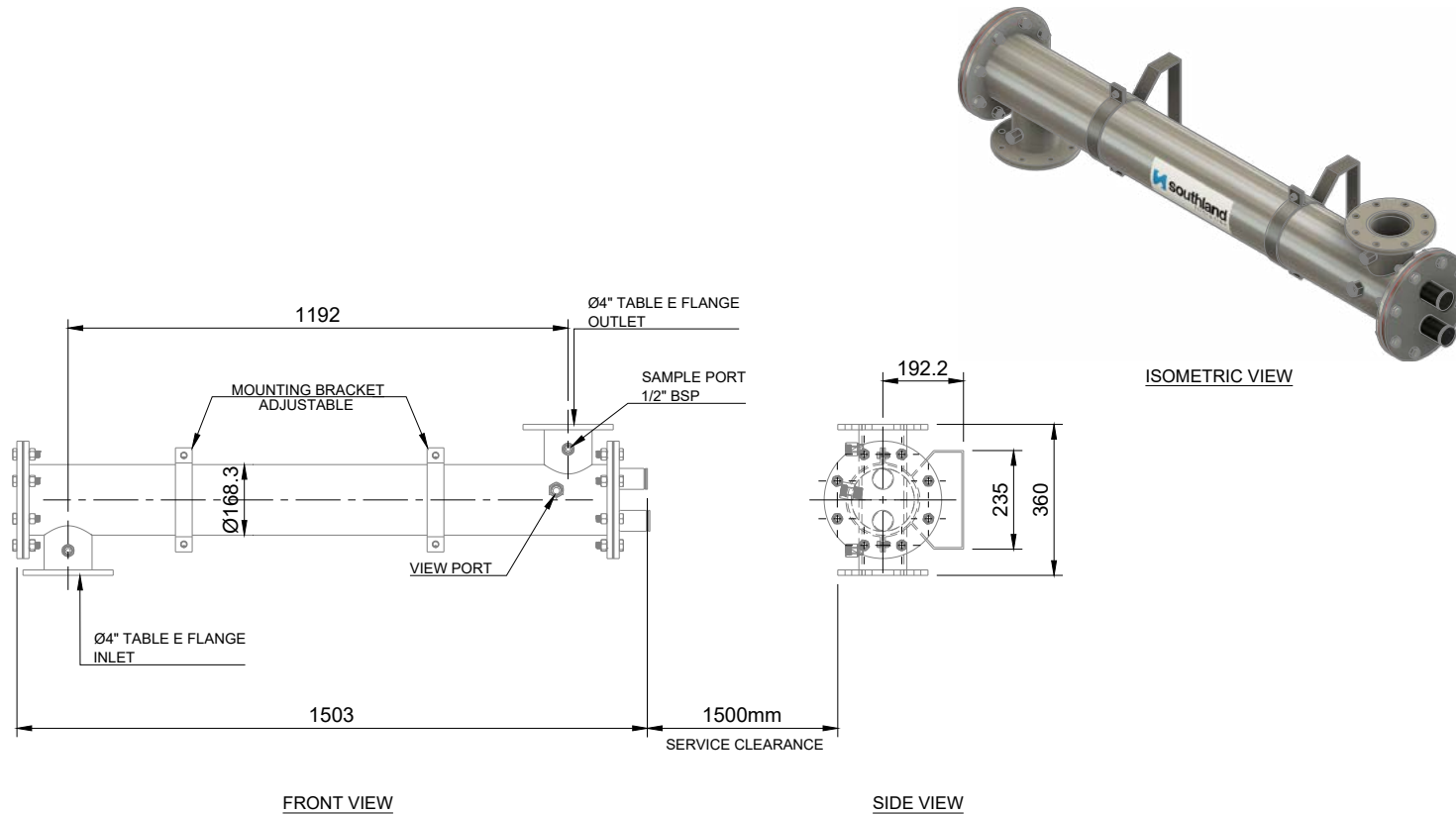
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**SV100-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



**STANDARD NOTES:**

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- 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH AS/NZS 3500.
- 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER (OTHERS) UNLESS NOTED OTHERWISE.
- 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
- 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
- 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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INFORMATION			
SOUTHLAND FILTRATION			
DRAWING NUMBER	REVISION	SCALE	SHEET SIZE
-	0	1:10	A3

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN SV100-F
TITLE	GENERAL ARRANGEMENT

# SPECIFICATIONS

## PRODUCT CODE

SV100-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	2480.4 L/m (41.34 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	1762.8 L/m (29.38 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	1470 L/m (24.5 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	1102.8 L/m (18.38 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" (100mm) Table E flange
Reactor Volume (L)	22L
Reactor Length Overall (~mm)	1,520mm
Space Required for Servicing (~mm)	1,500mm
Reactor Dry Weight (Kg)	36kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	450W
UV-C Output (W)	143W
Number of Lamps (Each Unit)	2ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz, 6A
Power Consumption (W)	1000W
Power Box Dimensions (mm)	600 x 400 x 200 mm
Power Box Weight (Kg)	21kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

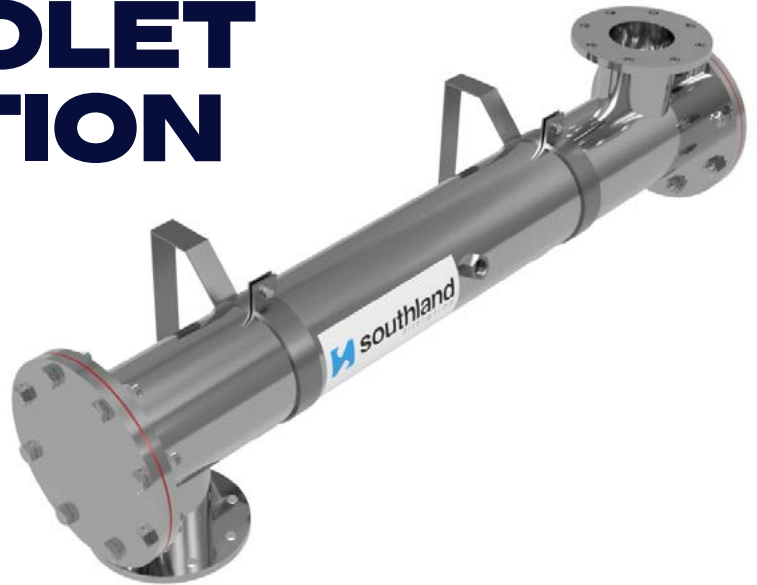
## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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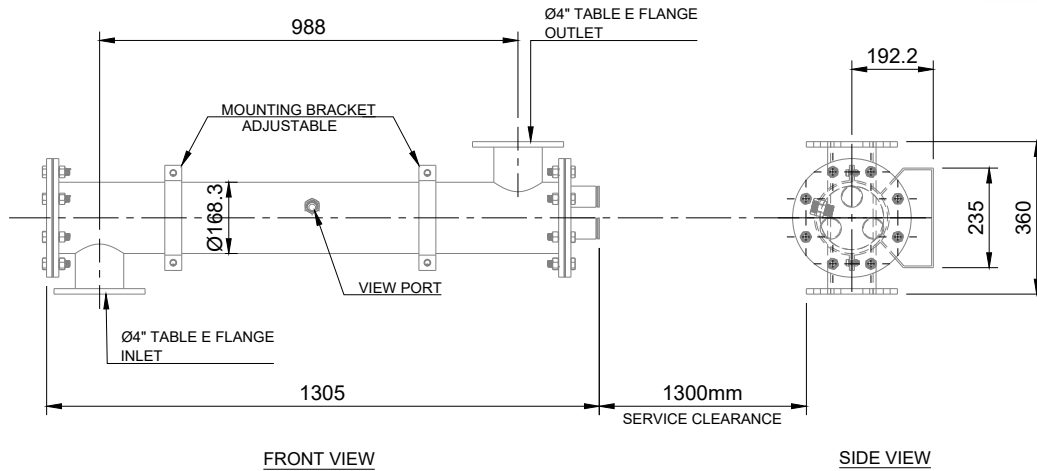
**SV105-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



ISOMETRIC VIEW



**STANDARD NOTES:**

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- 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH AS/NZS 3500.
- 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER (OTHERS) UNLESS NOTED OTHERWISE.
- 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
- 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
- 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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INFORMATION			
SOUTHLAND FILTRATION			
DRAWING NUMBER	REVISION	SCALE	SHEET SIZE
-	0	1:10	A3

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN SV105-F
TITLE	GENERAL ARRANGEMENT

# SPECIFICATIONS

## PRODUCT CODE

SV105-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	2072.4 L/m (34.54 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	1473 L/m (24.55 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	1228.2 L/m (20.47 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	921.6 L/m (15.36 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" (100mm) Table E flange
Reactor Volume (L)	22.4L
Reactor Length Overall (~mm)	1,315mm
Space Required for Servicing (~mm)	1,300 mm
Reactor Dry Weight (Kg)	30kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	240W
UV-C Output (W)	76W
Number of Lamps (Each Unit)	3ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz, 2.7A
Power Consumption (W)	810W
Power Box Dimensions (mm)	600 x 600 x 200 mm
Power Box Weight (Kg)	16kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

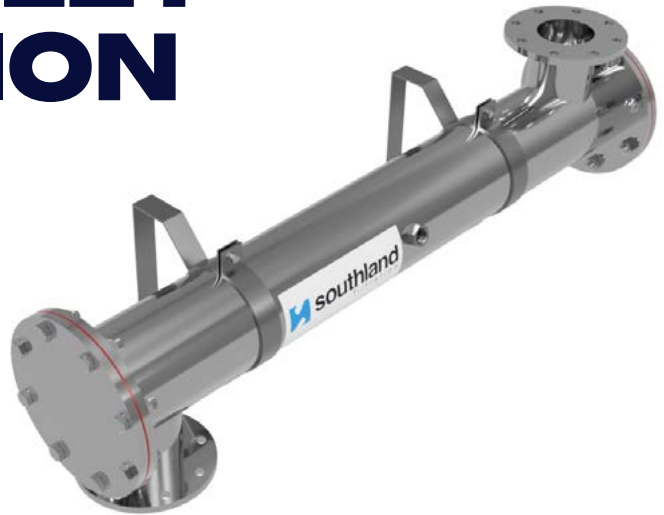
## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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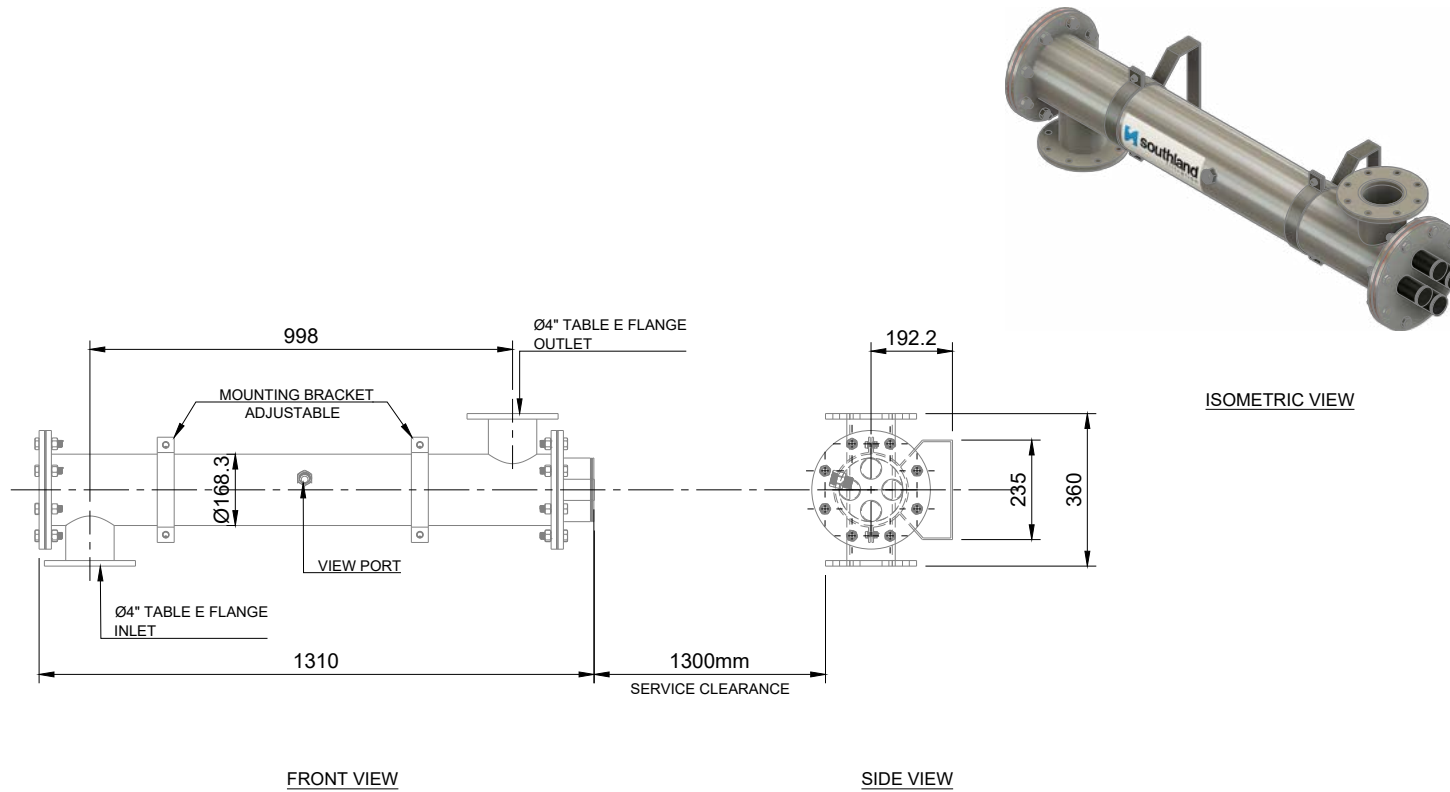
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**SV120-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



**STANDARD NOTES:**

- 1) SOUTHLAND FILTRATION SHALL SUPPLY AND INSTALL ALL EQUIPMENT AND PIPE WORK WITHIN THE BATTERY LIMITS STATED IN THE DRAWINGS UNLESS NOTED OTHERWISE.
- 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH AS/NZS 3500.
- 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER (OTHERS) UNLESS NOTED OTHERWISE.
- 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
- 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
- 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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INFORMATION		
SOUTHLAND FILTRATION		
DRAWING NUMBER	REVISION	TITLE
-	0	GENERAL ARRANGEMENT
CAD FILE	SCALE	SHEET SIZE
-	1:10	A3

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN SV120-F

# SPECIFICATIONS

## PRODUCT CODE

SV120-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	2142 L/m (35.7 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	1522.8 L/m (25.38 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	1269.6 L/m (21.16 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	952.8 L/m (15.88 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" (100mm) Table E flange
Reactor Volume (L)	22L
Reactor Length Overall (~mm)	1,310mm
Space Required for Servicing (~mm)	1,300 mm
Reactor Dry Weight (Kg)	36kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	180W
UV-C Output (W)	57W
Number of Lamps (Each Unit)	4ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz
Power Consumption (W)	800W
Power Box Dimensions (mm)	600 x 600 x 200 mm
Power Box Weight (Kg)	16kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

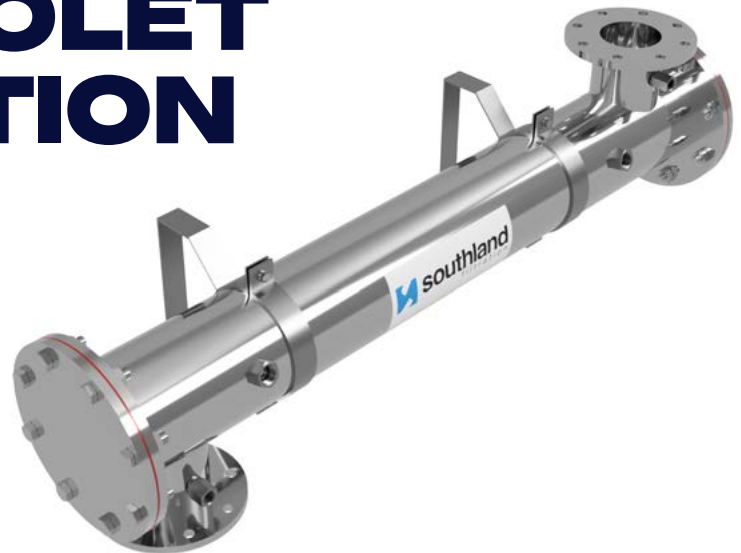
## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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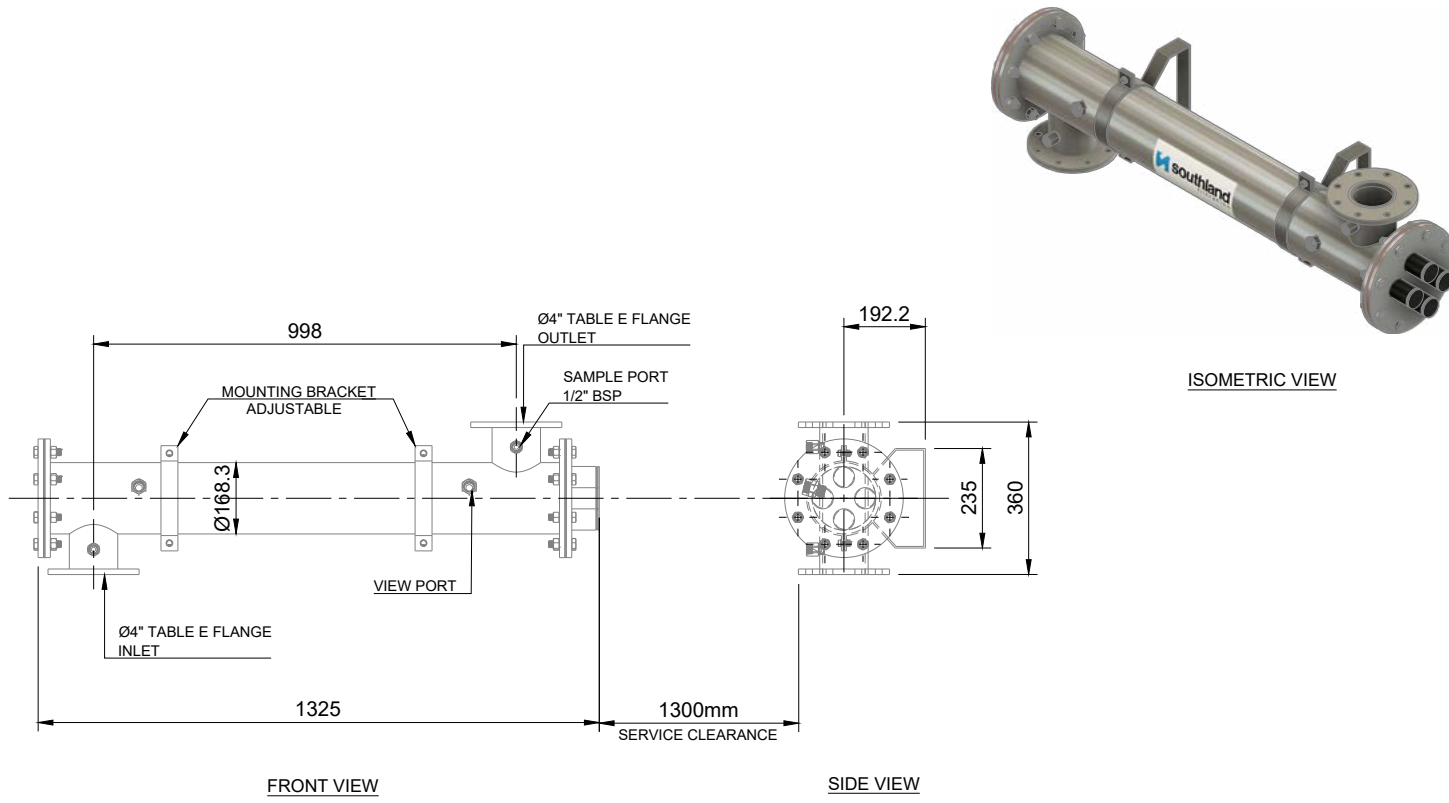
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FILTRATION

**SV140-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



- STANDARD NOTES:
- 1) SOUTHLAND FILTRATION SHALL SUPPLY AND INSTALL ALL EQUIPMENT AND PIPE WORK WITHIN THE BATTERY LIMITS STATED IN THE DRAWINGS UNLESS NOTED OTHERWISE.
  - 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH AS/NZS 3500.
  - 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER ('OTHERS') UNLESS NOTED OTHERWISE.
  - 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
  - 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
  - 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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REVISION NO	DESCRIPTION	DATE	DRAWN	ENGINEER	AUTHORISED
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INFORMATION			
SOUTHLAND FILTRATION			
DRAWING NUMBER	REVISION	SCALE	SHEET SIZE
-	0	1:10	A3

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN SV140-F
TITLE	GENERAL ARRANGEMENT

# SPECIFICATIONS

## PRODUCT CODE

SV140-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	3090 L/m (51.5 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	2199.6 L/m (36.66 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	1650 L/m (27.5 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	1236 L/m (20.6 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" (100mm) Table E flange
Reactor Volume (L)	22L
Reactor Length Overall (~mm)	1,310mm
Space Required for Servicing (~mm)	1,300 mm
Reactor Dry Weight (Kg)	36kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	240W
UV-C Output (W)	76W
Number of Lamps (Each Unit)	4ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz
Power Consumption (W)	1080W
Power Box Dimensions (mm)	600 x 800 x 200 mm
Power Box Weight (Kg)	16kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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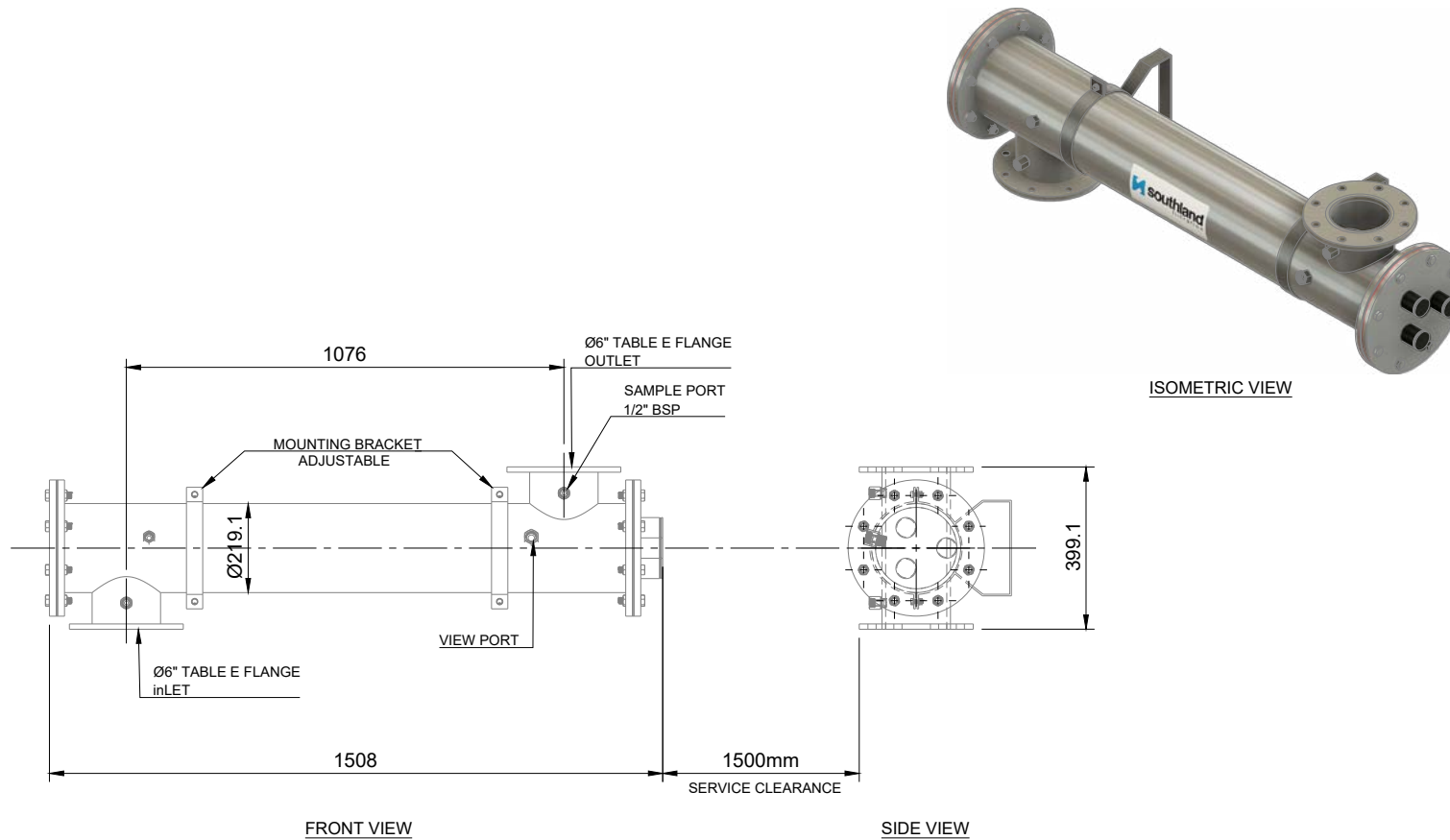
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FILTRATION

**SV150-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



**STANDARD NOTES:**

- 1) SOUTHLAND FILTRATION SHALL SUPPLY AND INSTALL ALL EQUIPMENT AND PIPE WORK WITHIN THE BATTERY LIMITS STATED IN THE DRAWINGS UNLESS NOTED OTHERWISE.
- 2) PIPING ROUTES ARE INDICATIVE ONLY AND WILL BE SITE RUN TO SUIT FINAL LOCATIONS OF EQUIPMENT. PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH AS/NZS 3500.
- 3) ALL ELECTRICAL WORKS (POWER AND CONTROL) SHALL BE BY CUSTOMER (OTHERS) UNLESS NOTED OTHERWISE.
- 4) EACH 240V GPO SHALL BE SINGLE OUTLET ONLY, FLAT FACED AND IP54 RATED.
- 5) THREE PHASE CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED ISOLATOR EXTERNAL TO EQUIPMENT. COMMANDO STYLE PLUGS SHALL BE USED WHERE SPECIFICALLY NOTED.
- 6) DRAIN LINE PENETRATIONS THROUGH FLOOR SHALL BE SUPPLIED WITH AN OPEN TUNDISH AS NOTED ON DRAWINGS.



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**INFORMATION**

SOUTHLAND FILTRATION

DRAWING NUMBER: -

SCALE: 1:10

CAD FILE: -

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN SV150-F
TITLE	GENERAL ARRANGEMENT

REVISION

0

SHEET SIZE

A3

# SPECIFICATIONS

## PRODUCT CODE

SV150-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	4603.8 L/m (76.73 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	3273 L/m (54.55 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	2728.2 L/m (45.47 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	2046.6 L/m (34.11 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	4" or 6" (100 or 150 mm) Table E flange
Reactor Volume (L)	47L
Reactor Length Overall (~mm)	1,520mm
Space Required for Servicing (~mm)	1,500mm
Reactor Dry Weight (Kg)	61kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	450W
UV-C Output (W)	143W
Number of Lamps (Each Unit)	3ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz, 9A
Power Consumption (W)	1500W
Power Box Dimensions (mm)	800 x 600 x 300 mm
Power Box Weight (Kg)	32kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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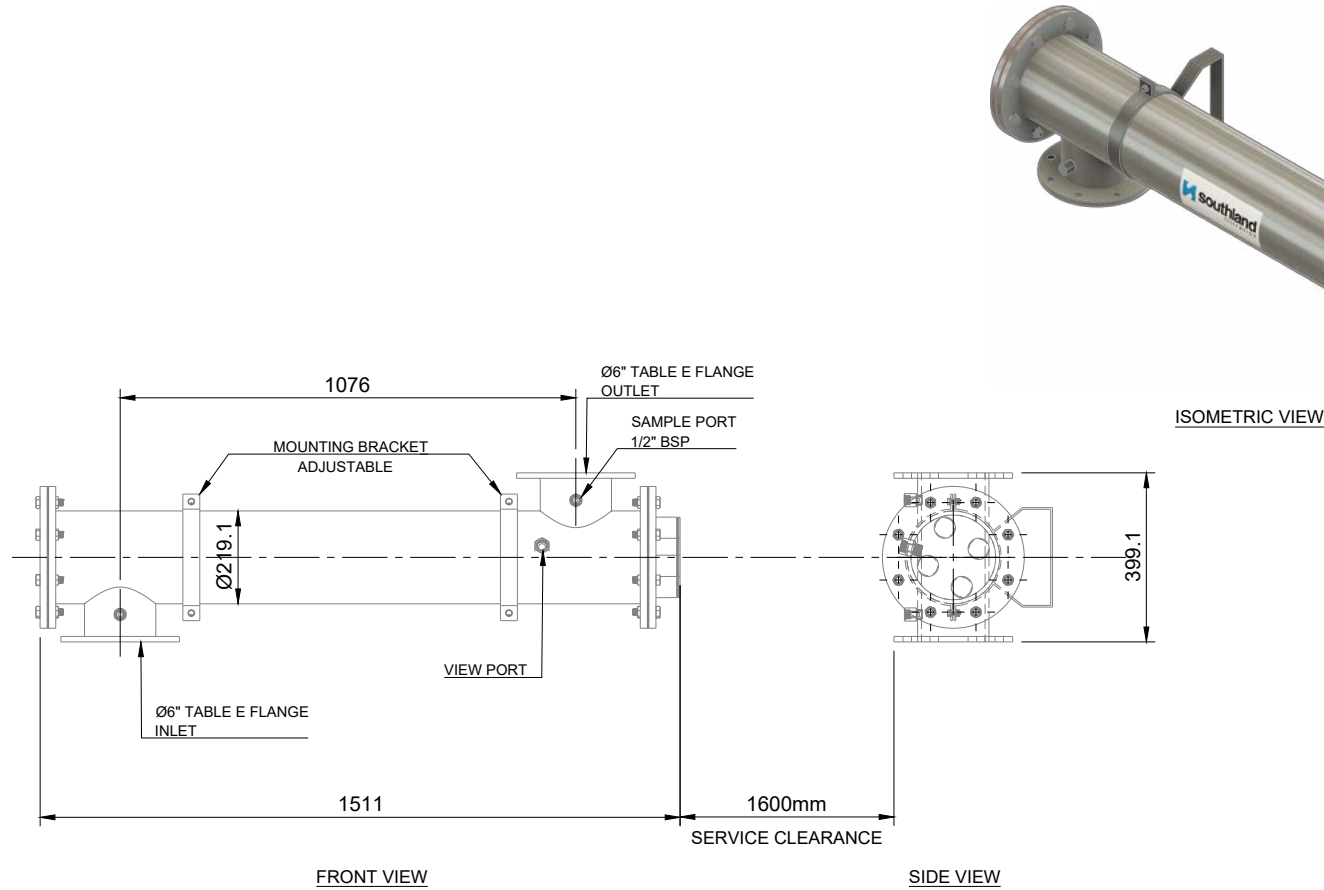
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FILTRATION

**SV200-F****ULTRA-VIOLET  
DISINFECTION  
SYSTEMS****SKAN UV-F SERIES****FEATURES**

- Suitable for drinking and process water disinfection
- Configurable for treated wastewater and other low UV-transmission liquids
- Robust stainless-steel reactor for long service life
- Consistent UV performance from high-output lamps
- Integrated lamp status indication with alarm functionality
- Volt-free contacts for remote fault monitoring
- Rated for 1,000kPa operating pressure with 1,600kPa (higher-pressure option available)

# PLANS/DRAWINGS



**STANDARD NOTES:**

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**INFORMATION**

SOUTHLAND FILTRATION

DRAWING NUMBER -

REVISION 0

CAD FILE -

SCALE 1:10

SHEET SIZE A3

CLIENT	SOUTHLAND FILTRATION
PROJECT	SKAN SV200-F
TITLE	GENERAL ARRANGEMENT

# SPECIFICATIONS

## PRODUCT CODE

SV200-F

## FLOW RATES

Rated flow at dose 16 mJ/cm <sup>2</sup> @ 95% UVT	5480.4 L/m (91.34 L/s)
Rated flow at dose 25 mJ/cm <sup>2</sup> @ 95% UVT	3898.2 L/m (64.97 L/s)
Rated flow at dose 30 mJ/cm <sup>2</sup> @ 95% UVT	3247.8 L/m (54.13 L/s)
Rated flow at dose 40 mJ/cm <sup>2</sup> @ 95% UVT	2436.6 L/m (40.61 L/s)

## OPERATING PARAMETERS

Max Operating Pressure	1000kPa
Ambient Air Temperature	0°C - 40°C
Influent Water Temperature	2°C - 37°C
Installation Orientation	Horizontal mounting with outlet pointing up

## REACTOR

Chamber Material	Stainless Steel G316L, Electropolished
In-Outlet Connection	6" (150mm) Table E flange
Reactor Volume (L)	47L
Reactor Length Overall (~mm)	1,520mm
Space Required for Servicing (~mm)	1,500mm
Reactor Dry Weight (Kg)	61kg
Operating Pressure (Max)	10 Bar
Lamp Power (W)	450W
UV-C Output (W)	143W
Number of Lamps (Each Unit)	4ea
Lamp Life (Hrs)	12,000 Hours

## POWER SUPPLY BOX

Input	220-240 VAC, 50-60 Hz, 12A
Power Consumption (W)	1980W
Power Box Dimensions (mm)	600 x 800 x 300 mm
Power Box Weight (Kg)	30kg
IP Rating	IP54
Lamp Lead Length (M)	2m

## FEATURES:

- Lamp parallel to water flow
- View/monitor port
- Easy to install brackets

## OPTIONS:

- UV intensity monitor
- Spare set of volt free contacts
- Enclosure material 316SS, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

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