



Features

- ❶ Low Column height and compact
- ❷ Both of Push and Suction are available
- ❸ Employs anti-corrosive molded FRP components

SYS type standard common specifications

Standard material	Main unit and circulation tank - FRP; filler - PVC; mist catcher - PVC	
Standard color	Scrubbing column and tank - Munsell N-7	Blower - Munsell 2.5G6/3
Standard motor	Totally enclosed fan cooled motor for outdoor installation, 200/220 V, 50/60 Hz	
Scrubbing column pressure loss	300Pa	
Machine noise level	78 to 81 dB(A)(a reference noise level at 1 m from the machine with a sirocco fan)	
Allowable inlet temperature	40°C max. with standard design (80°C max. with optional design feature)	
Scrubbing column pressure resistance	1,000 Pa max.	

Removal ratio

Gas name	Molecular formula	Scrubbing liquid	Removal ratio
Hydrogen chloride	HCl	H ₂ O	90 % or more
Hydrogen fluoride	HF	H ₂ O	90 % or more
Ammonia	NH ₃	H ₂ SO ₄	90 % or more
Sulfur dioxide	SO ₂	NaOH	90 % or more
Hydrogen sulfide	H ₂ S	NaOH	90 % or more

(Note 1) The removal ratios in the table are given assuming an original concentration of 100 ppm (max.) for each given gas.

(Note 2) The removal ratio may vary with the fresh water supply rate when scrubbing is done with water.

(Note 3) A portion of HCl gas still remaining after the treatment may produce white smoke at the exhaust outlet under certain conditions depending on factors such as the gas concentration, outside temperature and humidity.

SYS-Dtype (Horizontal packed column)

Dimensions

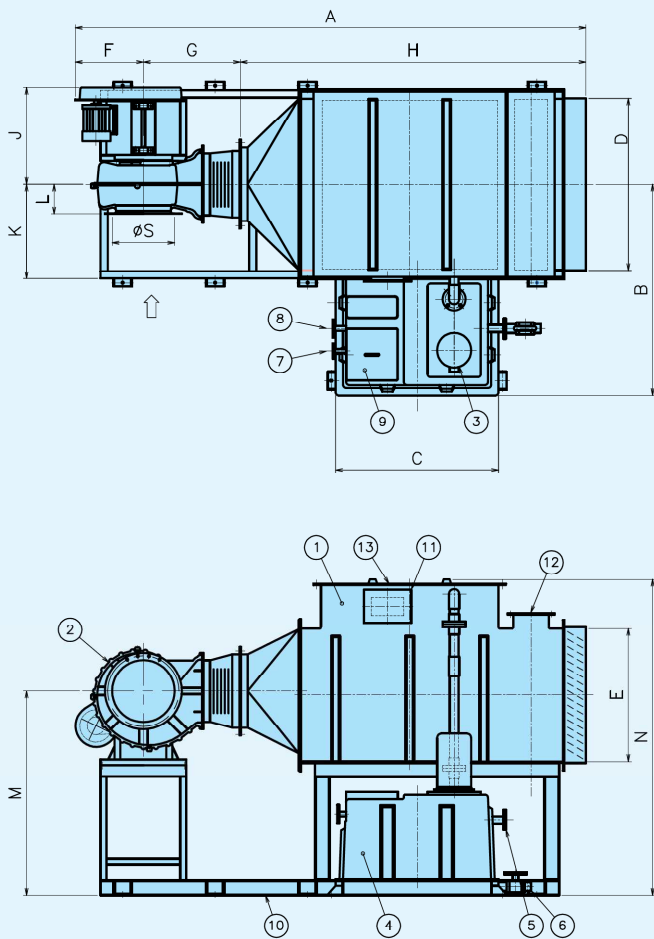


Table of materials

No.	Part name	Material	Quantity	Remarks
1	Scrubbing column unit	FRP	1	
2	Blower	FRP	1	
3	Circulation pump	PP	1	
4	Circulation tank	FRP	1	
5	Overflow fitting	FRP	1	40A JIS10kF
6	Drain fitting	FRP	1	40A with PVC valve
7	Ball tap at the water inlet	FRP	1	20A JIS10kF
8	Water inlet	FRP	1	25A JIS10kF
9	Circulation tank inspection door	FRP	1	
10	Common base	FRP	1	Hot-dip galvanized
11	Sprinkler pipe inspection door	FRP	1	With PVC lid
12	Mist catcher removal door	FRP	1	
13	Filler removal door	FRP	1	

Dimensions (unit: mm) of SYS-E20D - 150D

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	φS	PCDS1	φS2	n-φe
SYS-E 20D	2965	1100	1050	560	420	370	415	2180	479	335	130	1130	1640	268	322	358	12-10
SYS-E 40D	3100	1100	1050	560	720	435	485	2180	601	335	160	1280	1935	320	382	421	16-12
SYS-E 60D	3234	1275	1100	860	720	435	570	2229	601	485	160	1280	1935	320	382	421	16-12
SYS-E 80D	3359	1275	1100	860	920	460	670	2229	653	485	200	1380	2135	422	482	520	20-14
SYS-E 100D	3465	1425	1100	1160	920	460	670	2335	653	635	200	1380	2135	422	482	520	20-14
SYS-E 150D	3577	1425	1100	1160	1220	507	735	2335	890	635	330	1210	2435	510	590	640	24-14

SYS-E20D - 150D standard specifications

Model	Airflow rate (m ³ /min)	Circulation pump					Blower				Circulation tank capacity (ℓ)	Fresh water supply rate (ℓ/min)	Weight	
		Model 50Hz/60Hz	Pipe aperture (mm)	Discharge (ℓ/min)	Pump head (m)	Motor (kW) 50Hz/60Hz	Type	Airflow (m ³ /min)	Static pressure (kPa)	Motor (kW)			Product only (kg)	In operation (kg)
SYS-E 20D	~ 20	VEM-0401/0402	40	160	7	0.75/1.5	CES-101RL	20	0.75	0.75	250	1.5	500	810
SYS-E 40D	21 ~ 40	VEM-0401/0402	40	160	7	0.75/1.5	CES-151RL	40	0.75	1.5	250	3.0	550	860
SYS-E 60D	41 ~ 60	VEM-0501/0502	50	320	7	1.5/2.2	CES-151RL	60	0.75	2.2	360	4.5	700	1210
SYS-E 80D	61 ~ 80	VEM-0501/0502	50	320	7	1.5/2.2	CES-201RL	80	0.75	2.2	360	6.0	740	1250
SYS-E 100D	81 ~ 100	VEM-0501/0502	50	400	7	1.5/2.2	CES-201RL	100	0.75	3.7	450	8.0	790	1420
SYS-E 150D	101 ~ 150	VEM-0651/0652	65	600	7	2.2/3.7	NSF-302LL	150	0.75	5.5	450	12.0	1010	1730

SYS-S type (Horizontal packed column)

Dimensions

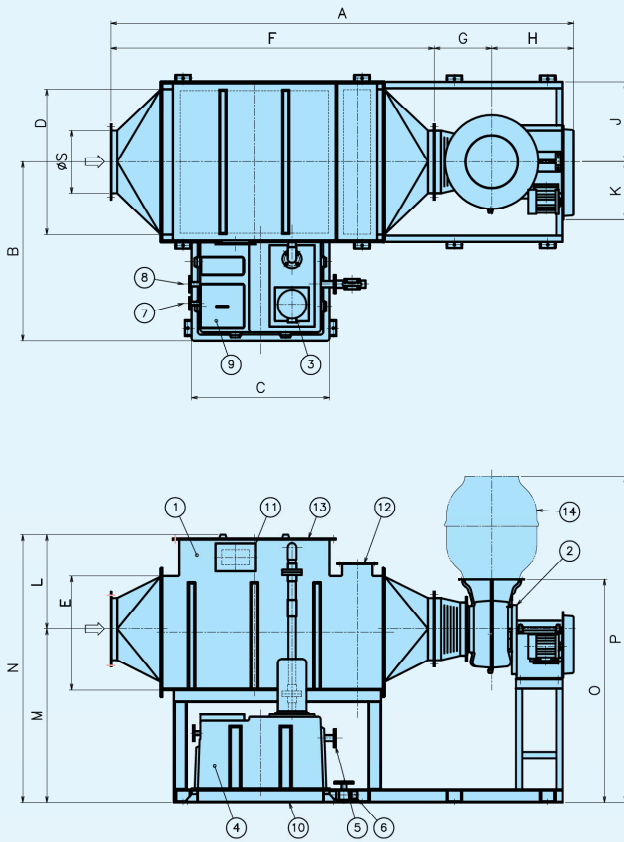


Table of materials

No.	Part name	Material	Quantity	Remarks
1	Scrubbing column unit	FRP	1	
2	Blower	FRP	1	
3	Circulation pump	PP	1	
4	Circulation tank	FRP	1	
5	Overflow fitting	FRP	1	40A JIS10kF
6	Drain fitting	FRP	1	40A with PVC valve
7	Ball tap at the water inlet	FRP	1	20A JIS10kF
8	Water inlet	FRP	1	25A JIS10kF
9	Circulation tank inspection door	FRP	1	
10	Common base	FRP	1	Hot-dip galvanized
11	Sprinkler pipe inspection door	FRP	1	With PVC lid
12	Mist catcher inspection door	FRP	1	
13	Filler removal door	FRP	1	
14	Ventilator	FRP	1	Options

Dimensions (unit: mm) of SYS-E20S - 150S

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	φS	PCDS1	φS2	n-φe
SYS-E 20S	3074	1100	1050	560	410	2280	315	479	335	370	510	1130	1640	1360	1895	250	322	358	12-10
SYS-E 40S	3226	1100	1050	560	710	2280	345	601	335	435	655	1280	1935	1580	2200	300	382	419	16-12
SYS-E 60S	3409	1275	1100	850	710	2378	430	601	485	435	655	1280	1935	1580	2200	400	482	521	20-14
SYS-E 80S	3501	1275	1100	850	910	2378	470	653	485	460	755	1380	2135	1780	2600	450	540	591	24-14
SYS-E 100S	3703	1425	1100	1150	910	2580	470	653	635	460	755	1380	2135	1780	2600	500	590	640	24-14
SYS-E 150S	4055	1425	1100	1150	1215	2580	585	890	635	865	905	1530	2435	2010	3035	600	680	720	32-12

SYS-E20S - 150S standard specifications

Model	Airflow rate (m ³ /min)	Circulation pump					Blower				Circulation tank capacity (ℓ)	Fresh water supply rate (ℓ/min)	Weight	
		Model 50Hz/60Hz	Pipe aperture (mm)	Discharge (ℓ/min)	Pump head (m)	Motor (kW) 50Hz/60Hz	Type	Airflow (m ³ /min)	Static pressure (kPa)	Motor (kW)			Product only (kg)	In operation (kg)
SYS-E 20S	~ 20	VEM-0401/0402	40	160	7	0.75/1.5	CES-101RH	20	0.75	0.75	250	1.5	480	790
SYS-E 40S	21 ~ 40	VEM-0401/0402	40	160	7	0.75/1.5	CES-151RH	40	0.75	1.5	250	3.0	520	830
SYS-E 60S	41 ~ 60	VEM-0501/0502	50	320	7	1.5/2.2	CES-151RH	60	0.75	2.2	360	4.5	650	1160
SYS-E 80S	61 ~ 80	VEM-0501/0502	50	320	7	1.5/2.2	CES-201RH	80	0.75	2.2	360	6.0	720	1230
SYS-E 100S	81 ~ 100	VEM-0501/0502	50	400	7	1.5/2.2	CES-201RH	100	0.75	3.7	450	8.0	760	1390
SYS-E 150S	101 ~ 150	VEM-0651/0652	65	600	7	2.2/3.7	NSF-302RH	150	0.75	5.5	450	12.0	1030	1750