PAL

DENSIMETRIC SEPARATORS

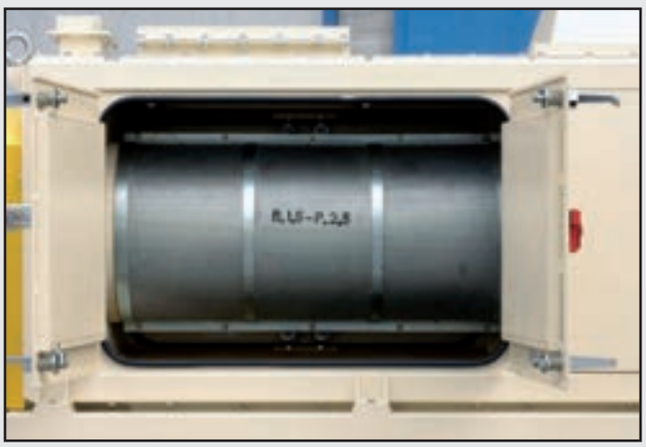
DENSIMAT, WIND CLEANER, DENSANDER, CENTRIFUGAL CLEANER

/ Desander

- designed for the removal of sand from fine material (from 0,1 to 0,6 mm);
- integrated unit provided of dosing system,
- electric cubicle with PLC is included for the setting of the machine.

/ Wind Cleaner

- designed for removal of heavy pollutants (minerals, plastic, rubber, ...) from recycled fines (wet/dry);
- sifting system based on sequentially differentiated fluidification speeds;
- equipped with adjustable internal flaps for air speed setting.



/ Centrifugal Cleaner

- designed for cleaning of the very fine fraction from mineral grits;
- internal parts made of wear proof materials;
- integrable with downstream sifting head to achieve top cleaning efficiency.

DENSIMETRIC SEPARATORS

06.06.A

DENSIMAT

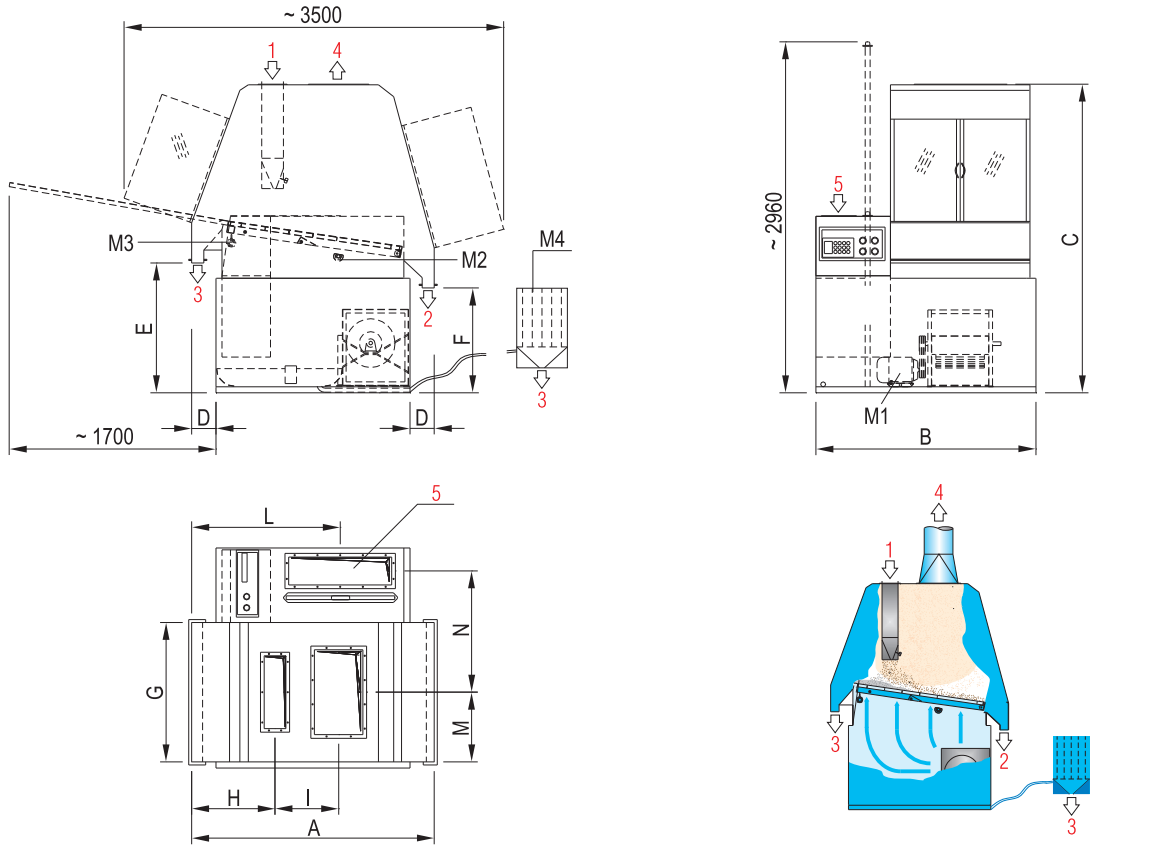
CLEANER FOR FINES, EXTRA FINES, DUST AND REJECT FROM DCC & WS

TECHNICAL FEATURES

/ Inlet spreader for material flow / Densimetric table fitted with vibrating screen / Fan for fluidizing air generation / In-line air filter / Cleaning parameters fully adjustable via keyboard, i.e.: screen inclination • vibration frequency • fluidizing air speed / Self-cleaning device for chamber bottom / Suction hopper with inspection doors / Compact unit including electric-electronic devices for controls and adjustments.

BENEFITS

/ Removal of sand from screening and sanding dust / Removal of heavy pollutants from: thick-dry particles, i.e. rejects from SL & CL wind sifters • rejects from dry cleaners for chips type DCC / Highly reliable and flexible adjustment for the removal of typical and atypical pollutants, e.g.: sand, stones, metals • plastics, rubber, glass, laminates, etc. / Very high cleaning efficiency / Cleaner combustion dust (and combustion chambers) / Improved panel machinability / Low cost, low energy consumption, easy maintenance.



1= INLET
2= CLEANED MATERIAL
3= HEAVY POLLUTANTS
4= VOLATILE-CLEANED MATERIAL
5= FRESH-CLEANED AIR
M1= FAN
M2= SCREEN
M3= INCLINATION ADJUSTER
M4= SUCTION FOR CHAMBER CLEANING

Not binding data. We reserve the right of modification at any time without prior notice.

06.06.A DENSIMAT

OVERALL DIMENSIONS mm

MODEL	A	B	C	D	E	F	G	H	I	L	M	N
DSM.15.D	2000	1815	2543	200	1070	865	1150	687	525	1224	575	1000
DSM.15.D-CHIPS	2000	1815	2543	200	1070	865	1150	687	525	1224	575	1000

MODEL	CAPACITY t/h				SUCTION S1		INSTALLED POWER kW				WEIGHT APPROX. KG
	DUST	COARSE S.L.	COARSE C.L.	RECY-WET PARTICLES	THROUGHPUT m^3/h	AIR SPEED m/s	M1	M2	M3	M4	
DSM.15.D	0,8-12	1,4-1,6	1,4-1,6	1,2-1,6	*	29	4,0	0,75	0,17	1,0	1360
	POLLUTED CHIPS FROM DCC										
DSM.15.D-CHIPS	2,0 - 2,5				16000	29	11,0	0,75	0,17	1,0	1360

*4000 m^3/h for dust or 6000 m3/h for other materials

DENSIMETRIC SEPARATORS

06.06.B

WIND CLEANER

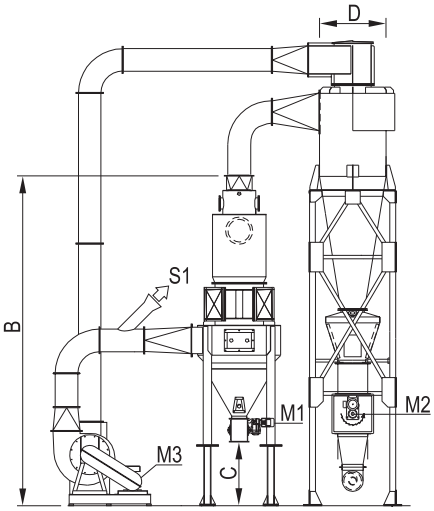
CLEANER FOR RECYCLED FINES

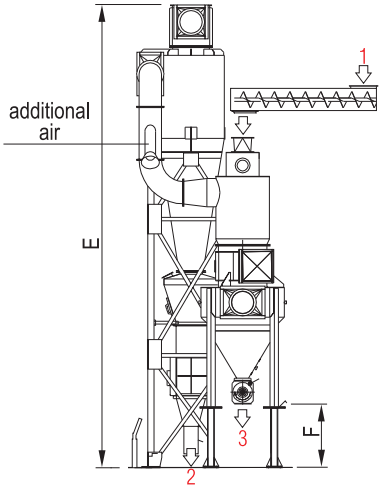
TECHNICAL FEATURES

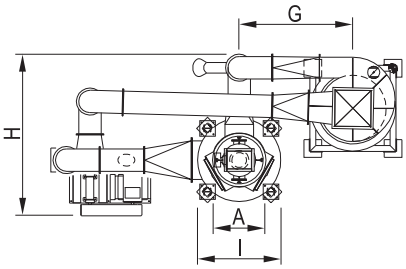
/ Cleaning chamber fitted with: adjustable feeding flaps • cleaning sections • exhaust air recovery • rotary valve for the discharge of heavy pollutants **/** Sifting system based on sequentially differentiated fluidization speeds **/** Fan **/** Discharge cyclone with rotary valve for clean particles **/** Piping with flaps to adjust the fluidizing speed.

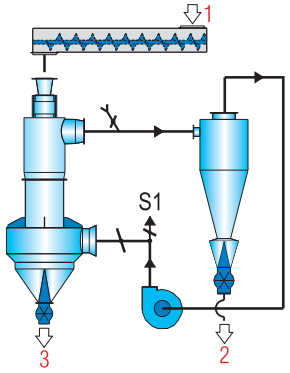
BENEFITS

/ Removal of heavy pollutants out of recycled fines, wet and dry, e.g.: minerals such as sand, stones, metals, etc. • atypical pollutants such as ABS, plastics, rubber, glass, laminates, etc. **/** Highly reliable and flexible adjustment **/** Very high cleaning efficiency **/** Improved panel machinability **/** Low cost, low energy consumption, easy maintenance.









1= INLET OF CONTAMINATED MATERIAL
2= ACCEPTS/CLEAN
3= REJECTS

M1= ROTARY VALVE OUT
M2= ROTARY VALVE IN
M3= FAN DRIVE

S1= EXHAUST AIR

Not binding data. We reserve the right of modification at any time without prior notice.

06.06.B WIND CLEANER

OVERALL DIMENSIONS mm

MODEL	A	B	C	D	E	F	G*	H	I
WCL.15/10	600	5261	1407	800	5290	772	10000	1300	1100
WCL.15/25	600	5261	1407	800	5290	772	25000	1300	1100
WCL.30/10	900	6912	2270	1120	7148	1200	10000	2269	1400
WCL.30/25	900	6912	2270	1120	7148	1200	25000	2269	1400

*Maximum distance between centers

MODEL	CAPACITY TOP		INSTALLED POWER kW			EXHAUST AIR m^3/h	WEIGHT APPROX. KG
	BULK m^3/h	WET t/h	M1	M2	M3	S1	
WCL.15/10	7,5	1,5	1,5	1,5	11	1800	2800
WCL.15/25	7,5	1,5	1,5	1,5	15	1800	3800
WCL.30/10	15,0	3,0	1,5	1,5	15	3200	4600
WCL.30/25	15,0	3,0	1,5	1,5	30	3200	5550

DENSIMETRIC SEPARATORS

06.06.C

DESANDER

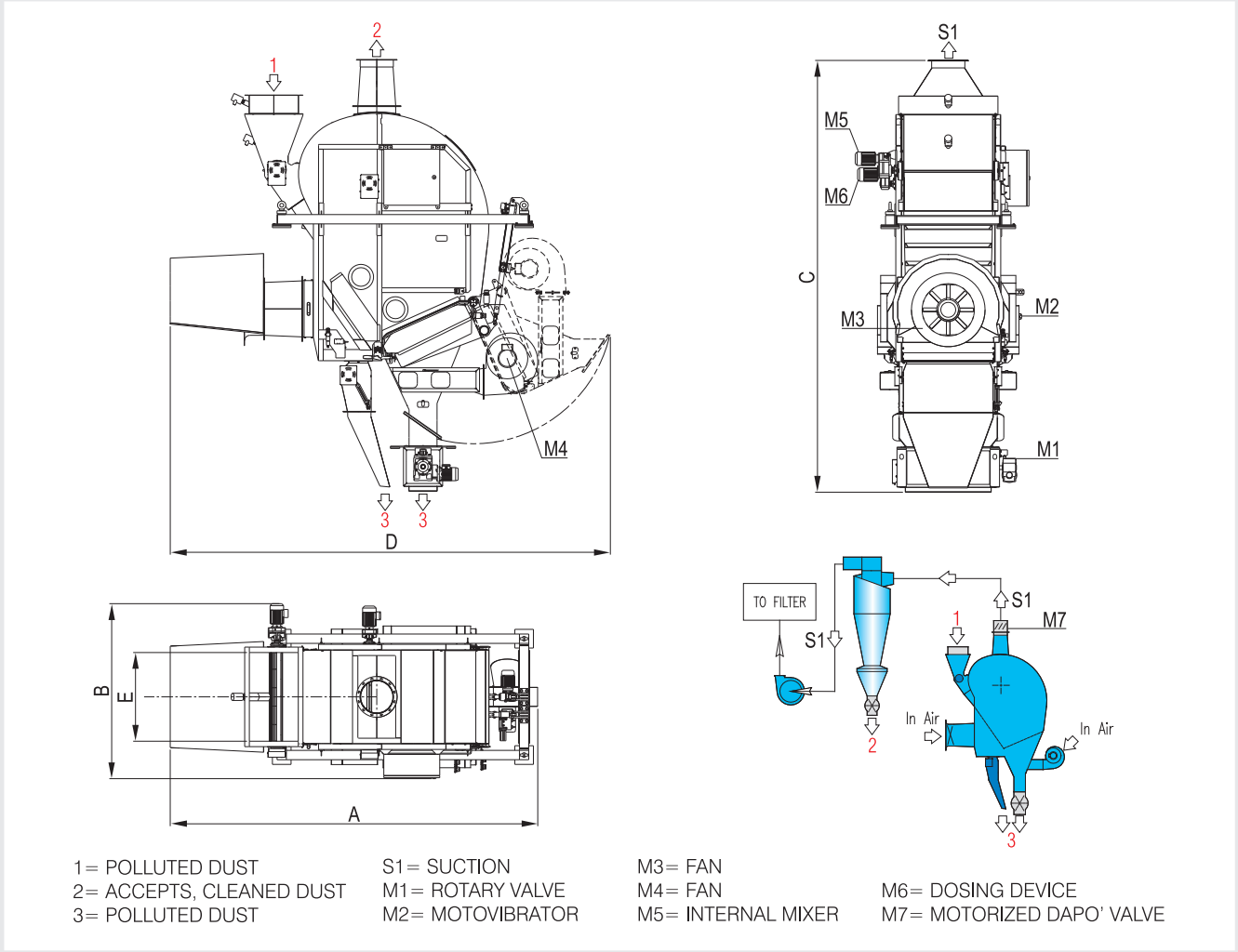
CLEANER FOR EXTRA FINES AND DUST PAT. PENDING

TECHNICAL FEATURES

/ Dust cleaning system suitable to remove heavy pollutants within a mesh range from 0.1 to 0.6 mm / Specially designed chamber for separating heavy pollutants from dust / Two adjustable air flows crossing the chamber from the fans equipped with inverter / Dosing system for setting the feeding flow / Internal rotor for balancing the dust flow inside the chamber.

BENEFITS

/ Removal of sand from the dust flow / Very high cleaning efficiency / Compact layout / Very low maintenance costs / Low energy consumption.



1= POLLUTED DUST
2= ACCEPTS, CLEANED DUST
3= POLLUTED DUST

S1= SUCTION
M1= ROTARY VALVE
M2= MOTOVIBRATOR

M3= FAN
M4= FAN
M5= INTERNAL MIXER

M6= DOSING DEVICE
M7= MOTORIZED DAPO' VALVE

Not binding data. We reserve the right of modification at any time without prior notice.

06.06.C DESANDER

OVERALL DIMENSIONS mm

MODEL	A	B	C	D	E
DS.100	3940	1874	4624	4722	950

MODEL	CAPACITY* m^3/h	TOTAL INSTALLED POWER kW	SUCTION S1			WEIGHT APPROX. KG
		ALL MOTORS	SUCTION m^3/h	AIR SPEED m/s	PIPE DIMENSION Ø mm	
DS.100	4-6	4,83	1 x 8000	25	350	2760

*According to type of infeed material

DENSIMETRIC SEPARATORS

06.08.C

CENTRIFUGAL CLEANER

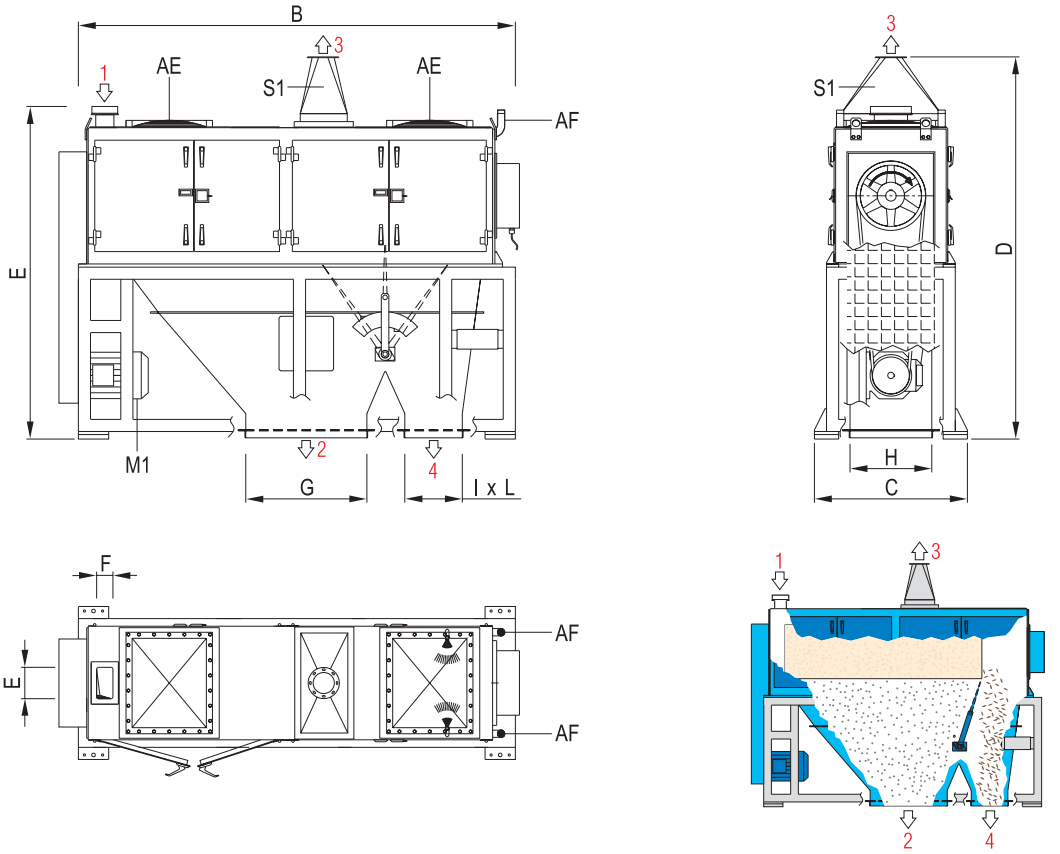
CLEANER FOR FRESH OR RECYCLED FINES

TECHNICAL FEATURES

/ Wear proof injection screw **/** Wear proof centrifugal unit **/** Wear proof cleaning chamber **/** Fire-extinguishing nozzles and explosion vents if necessary **/** Dust proof and compact unit **/** Patent pending.

BENEFITS

/ Efficient cleaning of the very fine fraction highly polluted by small mineral grits, from fresh or recycled wood fines **/** Saving of useable wood **/** Lower wearing of downstream machines: MDF refiners • knife ring flakers **/** Low cost, low energy consumption, easy maintenance.



AF= FIRE-EXTINGUISHING NOZZLES
(NECESSARY FOR DRY MATERIAL)
AE= EXPLOSION VENTS
(NECESSARY FOR DRY MATERIAL)

1= FEEDING MATERIAL
2= FINES POLLUTED BY
SMALL MINERAL GRITS

3= EXHAUSTED DUST
4= ACCEPTS/CLEAN
M1= MAIN MOTOR

Not binding data. We reserve the right of modification at any time without prior notice.

06.08.C CENTRIFUGAL CLEANER

OVERALL DIMENSIONS mm

MODEL	A	B	C	D	E	F	G	H	I	L
CC.50/220	2196	2885	1010	2523	207	110	800	540	380	540
CC.75/220	2196	2885	1260	2523	457	110	800	790	380	790
CC.100/220	2613	4440	1710	2613	590	380	1430	900	440	900
CC.2.100/220	2613	4440	3280	2613	2 x 590	380	1430	2 x 900	440	2 x 900

*According to infeed material

MODEL	CAPACITY BULK* m^3/h	INSTALLED POWER kW	SUCTION m^3/h	WEIGHT APPROX. KG
		M1	S1	
CC.50/220	12	22	1 x 1550	2050
CC.75/220	18	30	1 x 2050	2500
CC.100/220	24	37	1 x 2500	7000
CC.2.100/220	48	2 x 37	2 x 2500	14000

DENSIMETRIC SEPARATORS

06.08.C

CENTRIFUGAL CLEANER WITH CLEANING UNIT

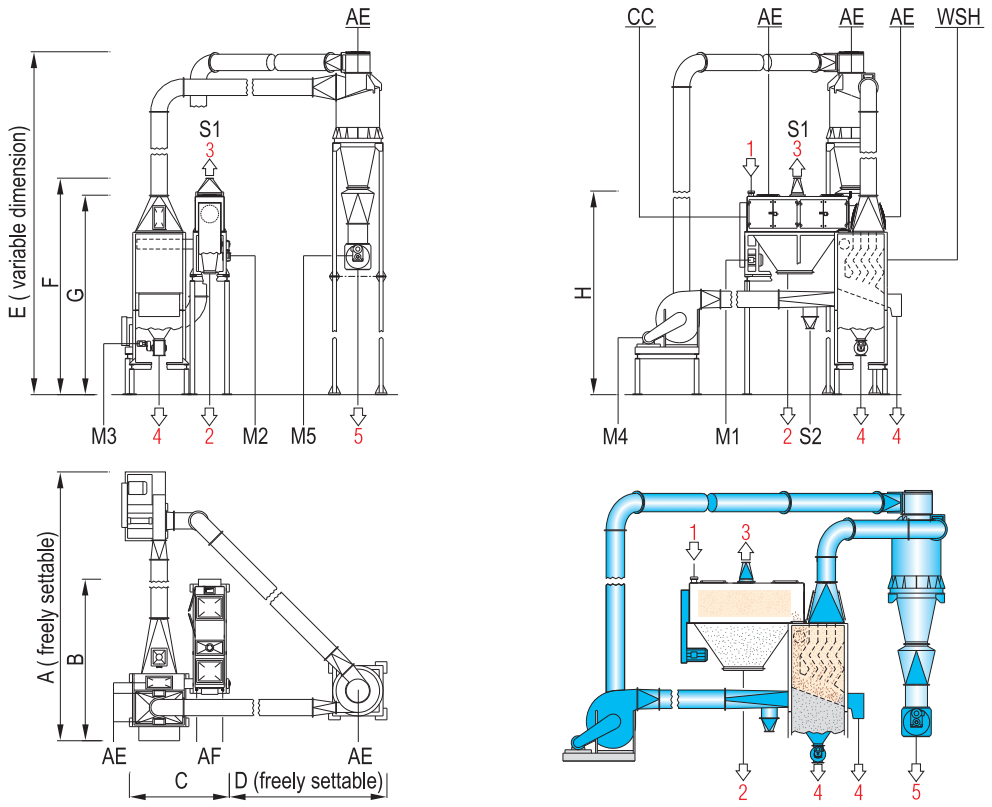
CLEANER FOR FRESH OR RECYCLED FINES, INTEGRATED WSH

TECHNICAL FEATURES

/ Integrated Cleaning **/** Unit Centrifugal Cleaner as described at previous page **/** Additional Wind sifter for the coarse fraction **/** Fire-extinguishing nozzles and explosion vents if necessary **/** Compact, dust and wear proof unit.

BENEFITS

/ Superior integrated cleaning of: fines from wet chips for MDF-PB • wet recycled particles **/** By the Centrifugal Cleaner: removal of the very fine fraction highly polluted by small mineral grits **/** By the Wind Sifter WSH.120: perfect cleaning of the coarse fraction **/** Coarse-clean fraction: easy to refine by MDF refiners • easy to flake by knife ring flakers **/** Saving of useable wood **/** Lower wearing of downstream machines: MDF refiners Knife • ring flakers **/** Low cost, low energy consumption, easy maintenance.



CC= CENTRIFUGAL CLEANER
WSH= WIND SIFTER
1= FEEDING MATERIAL
2= FINES POLLUTED BY SMALL MINERAL GRITS
3=EXHAUSTED DUST
4= COARSE POLLUTANTS
5= COARSE, CLEAN FRACTION
M1= CENTRIFUGAL CLEANER
M2= SCREW CONVEYOR FOR COARSE
M3= ROTARY VALVE OF WSH
M4= FAN
M5= ROTARY VALVE OF CYCLONE
AF= FIRE-EXTINGUISHING NOZZLES (NECESSARY FOR DRY MATERIAL)
AE= EXPLOSION VENTS (NECESSARY FOR DRY MATERIAL)

Not binding data. We reserve the right of modification at any time without prior notice.

06.08.C

INTEGRATED CLEANING UNIT

OVERALL DIMENSIONS mm

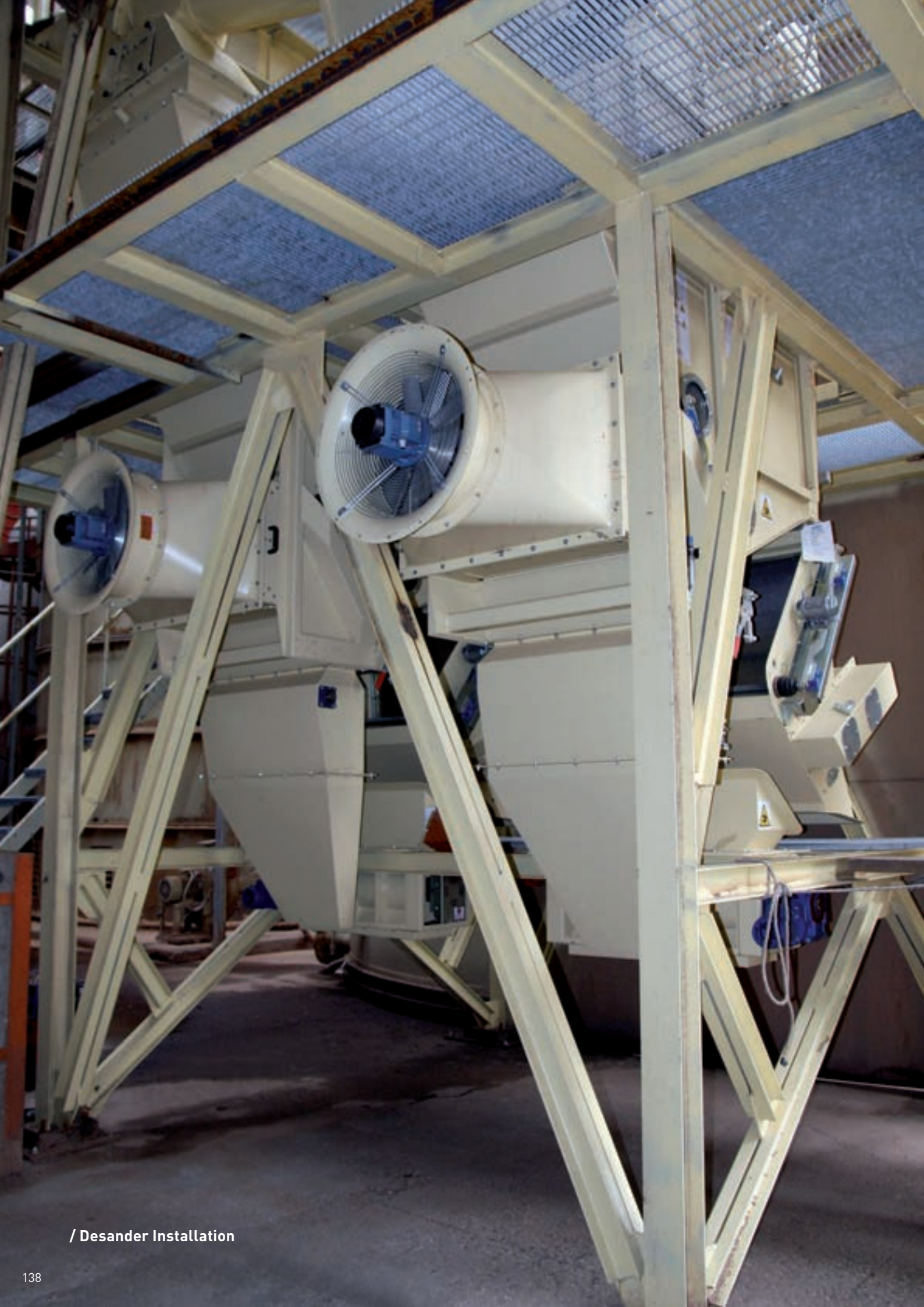
MODEL	A*	B	C	D*	E*	F	G	H
CC.50/220 + WSH.120	7000	3156	2570	4100	8800	5570	5125	5230
CC.75/220 + WSH.120	7000	3156	2690	3975	8800	5570	5125	5230

*Dimensions according to needed lay-out

MODEL	CAPACITY BULK m^3/h**	INSTALLED POWER kW					SUCTION m^3/h		WEIGHT APPROX. KG
		M1	M2	M3	M4	M5	S1	S2	
CC.50/220 + WSH.120	12	22	1,1	0,75	30 - 45 ***	1,5	1550	2000	5450
CC.75/220 + WSH.120	18	30	1,1	0,75	30 - 45 ***	1,5	2050	2000	6300

**According to infeed material ***According to infeed material and ducting configuration

/ Centrifugal Cleaner Installation



/ Desander Installation