



DRYING

sCOMPACT sDRY

DRYING SOLUTIONS



ZERO LOSS

sCOMPACT 80/150/250

COMPACT DRYER WITH INTEGRATED CONVEYING

swift – simple units, combined with state-of-the art control technology

The new swift product family comprises the most cost-efficient models of the motan product portfolio. swift products are quick and easy to operate. Whether for standardised injection moulding, blow moulding, or extrusion applications – they are always the right choice. The swift product family not only represents value for money, quick delivery and our usual motan quality, but also state-of-the-art control technology.

The sCOMPACT S and sCOMPACT A dryers are designed for flexible material processing in the production line and are suitable for use with a processing machine. They offer a system-specific solution with integrated conveying and a drying bin. The dryers are available in three versions and are each equipped with one drying bin of the size 80, 150 or 250 litres and a hopper loader with a capacity of 4 litres. The sCOMPACT A dryer is provided with advanced functions such as the dew point control and the dry air conveying function with purging. The sCOMPACT 250 dryer can optionally supply two processing machines.

Drying

The sCOMPACT dryers are developed especially in order to guarantee a stable and reliable drying process. The two desiccant cartridges generate a continuous dry air flow with low dew point and are perfectly suitable for production facilities with high air temperatures and high ambient humidity.

sCOMPACT control

The microprocessor control of the sCOMPACT uses both SSR and PID technology in order to ensure a precise drying temperature. The control manages a dry air generator, a drying bin and up to 3 hopper loaders. Thanks to a modern 7" touch screen colour display, all conveying and drying functions can be shown and monitored in a user-friendly way. The control offers a choice of 16 user interface languages. The A version of the dryers are equipped with a dew point control for accurate drying and reduction of the energy consumption. They are also equipped with a conveying line purging function. The sCOLOR V dosing unit with two dosing modules can be optionally controlled at the sCOMPACT control. Thanks to the integrated conveying and mixing function in the sCOMPACT control, you will save money as no separate control is needed.

sCOMPACT control



sCOMPACT 80/150/250



- Easy handling by means of a 7" touch screen colour display
- 128 MB RAM, 128 MB Flash
- Intelligent maintenance reminder
- Available in 16 user interface languages
- Reserved communication interface
- Dew point control
- Line purging

Conveying

The integrated sCONVEY CHS loader is used to transport plastic granulate quickly and without contamination to the processing machine or the drying bin. Costly downtimes are avoided by precisely coordinated material conveying to the processing machine. This prevents material loss and the production area remains clean and safe. When conveying hygroscopic materials with small throughputs or where space is limited a sCONVEY CMS machine loader version with 0.5l is available. The discharge module of the loader has no discharge flap and the unit must be mounted directly on the feed throat of the processing machine.

Cleaning door for drying bin



Side channel blower

A three-phase side channel blower is used for conveying. They are maintenance-free and have a long service life. Thanks to the low-noise, simple and compact design, the blowers can be installed directly in the dry air generator.

Fully insulated drying bin



sCONVEY CHS



sCONVEY CMS



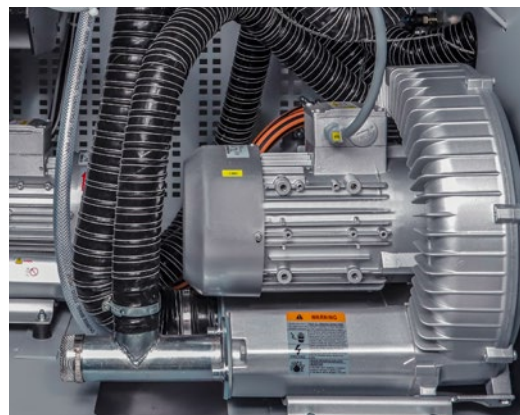
sDRYBIN I design

All drying bins are made of stainless steel and are completely insulated, including the drying bin cone. They are mounted on a stable frame. The long-life solid-state relays provide a precise and reliable temperature control which will prevent thermal damage to sensitive materials.

Large cleaning door

All drying models are equipped with especially large cleaning doors with an inspection window and can be opened with the help of a quick-release lock. The doors are adapted to the shape of the drying bin which optimises the material flow and makes cleaning easier. A hinged lid facilitates the access from above.

Side channel blower



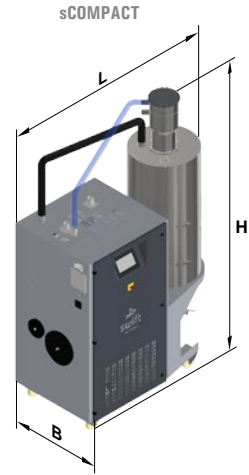
Fully insulated drying bin

The entire drying bin including material discharge is completely heat-insulated. This ensures stable conditions in the bin and saves energy.

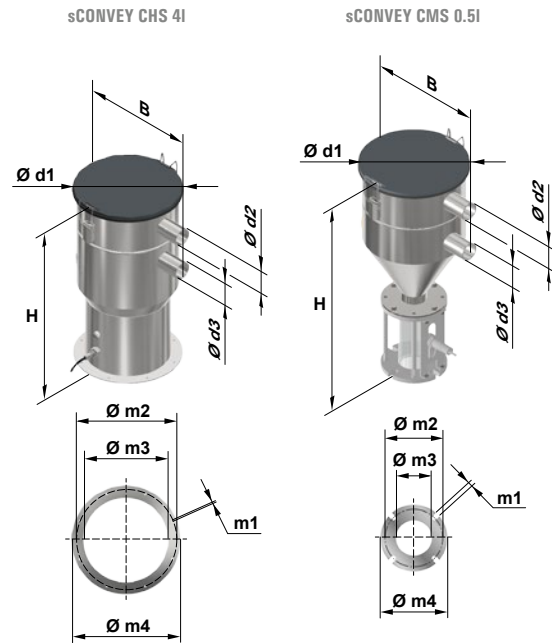
sCOMPACT 80/150/250

TECHNICAL DATA

Technical data	sCOMPACT 80		sCOMPACT 150		sCOMPACT 250	
Drying bin volume (l)	80		150		250	
Average dry air flow (m³/h)	30		50		90	
Temperature range (°C)	60-140		60-140		60-140	
Power supply (V/Hz)	3/N/PE 400/50	3/N/PE 400/60	3/N/PE 400/50	3/N/PE 400/60	3/N/PE 400/50	3/N/PE 400/60
Connected load (kW)	4.7	4.9	5.7	5.9	6.1	6.4
Maximum pre-fuse (A)	30		30		30	
Dew point (°C)	-40 ~ -70		-40 ~ -70		-40 ~ -70	
Number of hopper loaders (max.)	2 (3)		2 (3)		2 (3)	
Typical conveying distance (m)	5		5		5	
Weight approx. (kg)	260		275		330	
Dimensions (mm)						
L	1354		1354		1341	
B	717		717		765	
H	1854		2114		2312	
Colour RAL window grey/slate grey	7040/7015		7040/7015		7040/7015	



Technical data	sCONVEY CHS 4l	sCONVEY CMS 0.5l
Fill volume - litres/cycle (l)	4	0.5
Weight (kg)	3.8	5
Filter mesh size (µm)	1000	1000
Dimensions (mm)		
H	398	479
B	260	260
Ø d1	226	226
Ø d2	38	38
Ø d3	38	38
m1	7	10
Ø m2	195	100
Ø m3	165	53
Ø m4	215	130



Performance data					
Material throughput rates (kg/h)					
	Drying temp. (°C)	Residence time (h)	sCOMPACT 80 (kg/h)	sCOMPACT 150 (kg/h)	sCOMPACT 250 (kg/h)
ABS	80	2,5	20	38	67
CA	75	2,5	15	28	77
CAB	75	3	13	25	59
CP	75	4	12	24	45
EPDM	80	4	11	20	41
PA 6/66	75	5	11	20	34
PA 6 40% GF	80	5	17	31	84
PA 6.10 /11 /12	80	5	11	20	70
PAEK	140	4	14	26	49
PBT	110	3	20	38	65
PC	120	2,5	20	38	75
PC/PBT	110	3,5	15	28	54
PE	90	2	12	23	70
PE black	90	3	11	21	34
PEEK	140	4	19	35	49
PEI	140	5	14	26	39

Material throughput rates (kg/h)					
	Drying temp. (°C)	Residence time (h)	sCOMPACT 80 (kg/h)	sCOMPACT 150 (kg/h)	sCOMPACT 250 (kg/h)
PES	140	4	15	28	51
PET	140	7	10	18	30
PI	140	2	24	45	105
PLA	100	3	15	28	64
PMMA	80	2,5	19	36	71
POM	110	2,5	22	42	85
PP	100	2,5	15	29	54
PP talc 40%	100	3	15	28	58
PPO (PPE)	110	2,5	20	38	64
PPS	140	3,5	19	35	57
PS	80	2	24	45	79
PSU	130	3	20	38	63
PVC	70	2	24	45	105
SAN	80	2,5	21	39	65
SB	80	2	22	42	80
TPU (PUR)	80	3,5	14	27	51

The throughput rates indicated in the table are based on approx. values applicable to commercially available materials. Depending on bulk density, initial moisture and chosen drying parameters they can vary. Subject to technical changes.