

SDAP SERIES

Portable Drying and
Conveying Systems

15-60 CFM PORTABLE DRYING AND CONVEYING SYSTEMS

The SDAP portable drying and conveying systems combine the advanced features and reliability of Sterling's SDAA dryers with an integral conveying system for simple and fast loading of your process machine and the SDAP dryer hopper. The entire system is mounted on a rugged, portable cart.



Features

- PLC with touch-screen interface for control of the drying and conveying process, with digital dewpoint display and complete diagnostics for monitoring system status
 - Standard units 180°F to 250°F (82°-121°C)
 - Low temperature units 120°F to 180°F (49°- 82°C)
 - High temperature units 250°F to 400°F (121°- 204°C)
- Insulated stainless steel drying hopper with slide gate, drain and sight glass (3.0 cu. ft. [85 liter] and larger hoppers include an access door)
- Loading system to load the drying hopper and/or the process machine (s), depending on the model, includes closed-loop conveying to machine (if equipped), 1 HP centrifugal blower (s), 2-stage cyclonic filter with dust canister, SSI Series minimal inventory glass receiver with demand proximity switch (machine loading only), and (2) ten foot lengths of vinyl flex hose with 4 clamps
- Quick-connect wiring for SSI machine loader
- Mounted on a rugged, compact frame with heavy-duty casters
- NFPA79, UL and CUL electrical standards including NEMA 12 control enclosure, electrical disconnect for complete system, and branch fusing
- Integral control of drying, loading and optional proportioning valve
- Material over-drying protection
- One year parts warranty
- Supply voltage (specify): 208, 230, 460, 575/3/60

Options

- Low temperature operation 120° to 180°F (49°- 82°C). Low heat operation includes a pre-cooler to cool the dry air before entering process air heater
- High temperature operation 250° to 400°F (121°- 204°C). Includes insulated process delivery air hose and return air after-cooler to maximize the efficiency of the dryer
- Premium gate: steel or stainless steel
- SSI06 in lieu of SSI03 for process machine
- Stainless steel flex hose (required when conveying materials above 250°F (121°C))
- Magnet under SSIL loader on machine
- AP2 control system (Allen-Bradley PLC with color touch-screen)
- Ethernet module for remote communication
- Plasticizer trap (with aftercooler) in lieu of standard aftercooler included in high temperature package (mounts outside the dryer)
- 220/3/50 or 400/3/50 and CE compliance (touch-safe fuse holders for Euro fuses and touch-safe transformer). De-rate cfm by 17% for 50 hz applications

SDAP SERIES

Portable Drying and Conveying Systems

SPECIFICATIONS

Model	FLA (@460/3/60)	Dryer Process airflow		Temperature Range		Insulated Drying Hopper Capacity			
		cfm	m ³ /hr	°F	°C	cu. ft.	liters	lbs.	kg
SDAP25/0.85	12.7	15	25	180-300	71-149	0.85	25	30	14
SDAP25/1.7	12.7	15	25			1.7	50	60	27
SDAP50/1.7	13.8	30	50			1.7	50	60	27
SDAP50/3.0	13.8	30	50			3.0	85	100	45
SDAP50/4.0	13.8	30	50			4.0	110	150	68
SDAP100/3.0	22.2	60	100			3.0	85	100	45
SDAP100/4.0	22.2	60	100			4.0	110	150	68
SDAP100/6.0	22.2	60	100			6.0	170	200	90
SDAP100/9.0	22.2	60	100			9.0	250	300	136

Note: High temperature package available for up to 400°F (205°C)

DIMENSIONS

Model	Width, in. (cm)	Depth, in. (cm)	Height, in. (cm)	Weight, lbs. (kg)
SDAP25/0.7	48 (122)	33 (84)	63 (160)	670 (305)
SDAP25/1.5	50 (127)	33 (84)	72 (183)	690 (315)
SDAP50/1.5	50 (127)	33 (84)	72 (183)	705 (320)
SDAP50/3.0	53 (135)	33 (84)	71 (180)	795 (365)
SDAP50/4.0	53 (135)	33 (84)	78 (200)	825 (375)
SDAP100/3.0	53 (135)	34 (87)	71 (180)	860 (395)
SDAP100/4.0	53 (135)	34 (87)	78 (200)	890 (405)
SDAP100/6.0	53 (135)	34 (87)	90 (230)	920 (420)
SDAP100/9.0	53 (135)	34 (87)	97 (246)	1020 (463)

API CONTROLLER

- Mitsubishi programmable controller with monochrome touch-screen interface
- Integral PID temperature control and safety for process and regeneration
- Dewpoint monitor
- Dirty filter indicator
- Audible and visual alarm
- Diagnostics
- Material over-drying protection (process temperature setback based on a rise in return air temperature)
- "Auto Start" timer
- Quick disconnect receptacles for interface of conveying components



CONVEYING PACKAGES

Package	Features
A	MACHINE LOADING <ul style="list-style-type: none"> • Machine loading control • Closed-loop dry air conveying to process machine • SSI Series stainless steel sight glass receiver for machine
B	DRYING HOPPER LOADING <ul style="list-style-type: none"> • Conveying system fills the drying hopper instead of the process machine • Includes SSRO6 material receiver with hose and pick-up wand; 1.5 FCO open loop standard take-off on hopper discharge
C	MACHINE & DRYING HOPPER LOADING <ul style="list-style-type: none"> • Uses all of the above features to convey to both the drying hopper and the machine
D	2 MACHINES & DRYING HOPPER LOADING <ul style="list-style-type: none"> • Self-contained system to load drying hopper and two machines
BP	DRYING HOPPER LOADING WITH PROPORTIONING VALVE <ul style="list-style-type: none"> • Loading drying hopper from 2 different sources using a proportioning valve
CP	DRYING HOPPER LOADING WITH PROPORTIONING VALVE <ul style="list-style-type: none"> • Uses the features of System BP and will convey to one machine
DP	DRYING HOPPER LOADING WITH PROPORTIONING VALVE <ul style="list-style-type: none"> • Uses the features of System BP and will convey to two machines using a proportioning valve