Dryer

Series LTW

dehumidifying system for technical polymers

Special features:

- ✓ air conditioning with molecular sieves (Zeolite)
- ✓ automatic regeneration of the molecular sieves
- ✓ heating control over solid state relays
- ✓ filter interception
- ✓ high efficiency level up to - 40°C dew point

Series LTW

Model		LTW 50	LTW 80	LTW 125	LTW 200
Article-No.		1992.08	1993.08	1787.08	1326.08
Airflow[1]	m³/h	63-80	88-110	135-170	200-250
Power rating[2]	kW	8/9	8,75/10,55	12,5/14,30	13,75/17,15
Heater	kW	2 x 3,4	2 x 3,4	2 x 4,5	2 x 4,5
Air blower	kW	2 x 0,4	2 x 0,76	2 x 1,5	2 x 2,2
Rated current[2] approx.	A	13/14,5	14/16	20/23	22/27,5
Ø-Voltage 80°C	kW	4,5/5	4,5/5	5,5/6,5	5,5/7
B x T x H	mm	660 x 660 x 1.400			
Flow line pipe/Return line pipe	mm	Ø 50 x 50	Ø 50 x 50	Ø 60 x 50	Ø 70 x 50
Regeneration pipe	mm	Ø 40 x 50	Ø 40 x 50	Ø 50 x 50	Ø 50 x 50
Zeolite in tower	kg	2 x 7,5	2 x 7,5	2 x 12,5	2 x 16,5

[1] Airflow programmable
[2] with/without option forward heater
[3] Research means
[4] Height measure without connection carbine and base

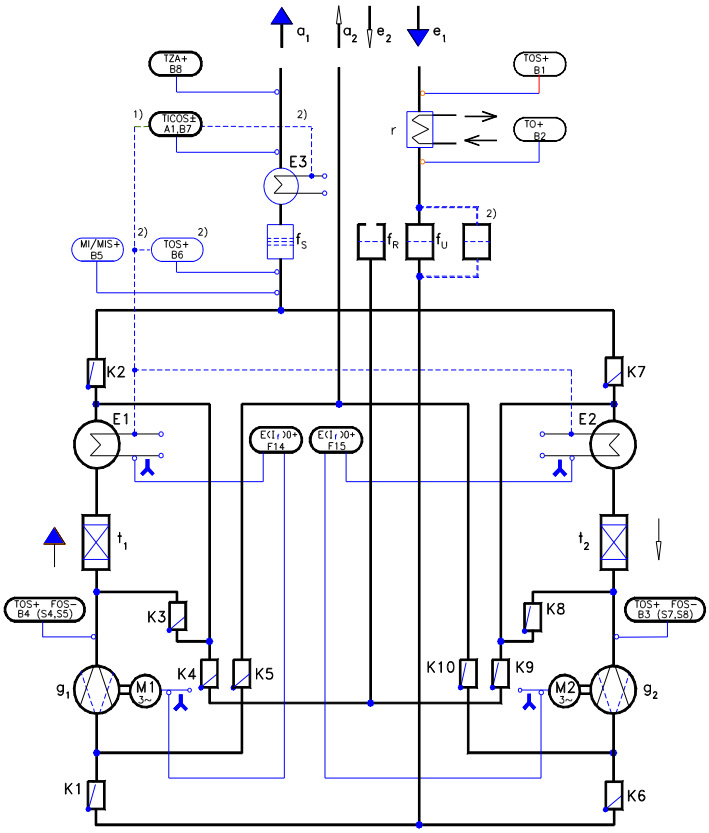
LANCO-Dryer
Series LTW

Modular dryers LTW consist of a desiccant dry air generator and a drying hopper as a mobile unit and are designed for automatic pre drying of granulated plastic materials by very dry air at adjustable temperatures due to the different resins. As result of the right
drying temperatures and the necessary residence times very low track moisture levels are achieved for best yield figures. The automatic drying procedure is fully controlled by microprocessors and the necessary sensors for temperatures, air stream etc.
This guarantees a high safety standard and improves the quality level of the final products.

Functions:
During the drying mode dried air at constant temperature flows through the granulated resin in the hopper. As consequence of the high water pressure difference between the resin and the process air the internal moisture comes fast to the surface of the granules and is taken over by the vertical air stream in the hopper. The return air from the drying hopper is now send trough a desiccant bed where the moisture is absorbed by molecular sieve granules based on enriched Zeolithe crystals. In a closed loop circuit the process air now is heated up again to the selected drying temperature and goes back to the drying hopper at very low dew point. The absorbed moisture is driven out from the desiccant from time to time in a regeneration cycle and the water molecules are given back as water steam to the surrounding atmosphere.

Material	Drying temperature °C	Drying time
ABS	80	2 - 3
CA	75	2 - 3
CAB	60	2 - 4
CP	60	2 - 4
PA 11 12	70 - 110	4 - 5
PA 6.x	70 - 110	4 - 6
PBT	140	4 - 5
PC	120	2 - 3
PE gefüllt	40 - 90	1 - 4
PEEK	150	2 - 4
PES	150	2 - 4
PET	140 - 180	3 - 6
PETG	50 - 70	4 - 5
PI	120	2 - 3
PMMA	80	3 - 4
POM	100	2 - 3
PP gefüllt	90	1 - 3
PPO	100 - 120	1 - 3
PPS	150	2 - 4
PSU	120	2 - 3
PUR	90	2 - 4
PVC	70	1 - 2
SAN	80	2 - 3
SB	80	2 - 3

Schematic representatin of the working sequence from a two bed double tower dryer:



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