



Hopper Dryer



TT Machines Pvt. Ltd.

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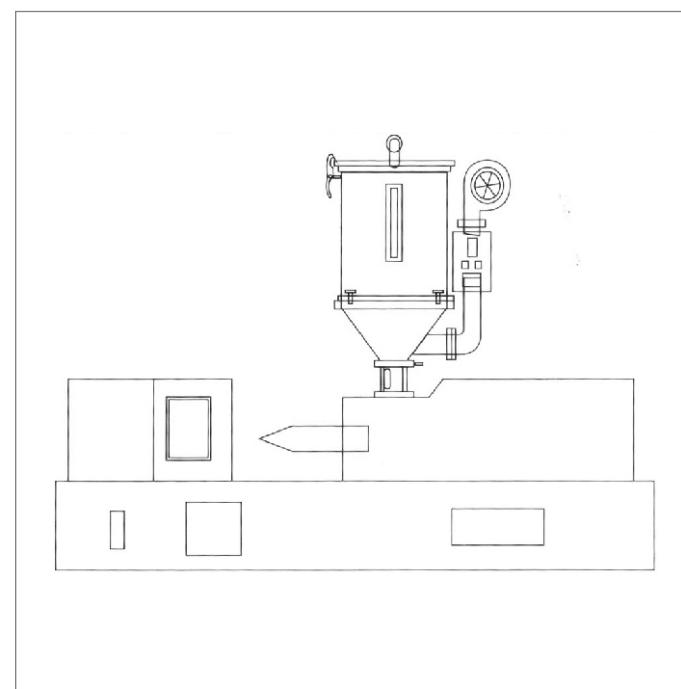
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Performance characteristics

THD series hopper dryers offer an effective and low-cost method for plastic material drying. Hot air is used to dry wet materials that due to moisture absorption during packaging, transportation, and recycling cycles. They can be directly mounted on the moulding machine for quick drying and space saving. For this series, hot air blows evenly from bottom to top of the hopper with capacity ranging from 12~1000 kg.

- Polished appearance with stainless steel hopper.
- Well-distributed hot-air, keeps constant temperature, and increase dry capacity.
- The P. I. D. temperature controller.
- Internal parts are made of stainless steel.
- As the hopper body and the bottom are designed separately, therefore it is very convenient to clean.
- Overheat protection device.
- Main switch for safety purpose.
- Transparent eye-glass magnet plinth (Optional)

Diagram of installation



Specifications

Model	Capacity (kg)	Heater Power (kw)	Blower Power (W)	External Dimensions (L x W x H)	Seat Dimensions (K x K x J)	Adaptable Injectioner (g)	Weight (kg)
THD-15	15	2.7	120	600 x 360 x 800	120 x 120 x 50	30-60	28
THD-25	25	3.2	120	725 x 405 x 950	150 x 150 x 60	30-60	38
THD-50	50	4.2	180	840 x 490 x 1070	160 x 160 x 75	125-500	75
THD-75	75	5	180	900 x 550 x 1175	160 x 160 x 75	500-1000	85
THD-100	100	7	250	955 x 605 x 1410	200 x 200 x 90	1000-1500	95
THD-150	150	9	250	960 x 610 x 1560	200 x 200 x 90	1500-2000	120
THD-200	200	12	400	1230 x 770 x 1660	230 x 240 x 105	2000-2500	150
THD-250	250	14.5	400	1235 x 775 x 1790	230 x 240 x 105	2500-3000	170
THD-300	300	14.5	400	1335 x 870 x 1810	230 x 230 x 110	3000-4000	200
THD-400	400	18	500	1360 x 915 x 1870	280 x 280 x 120	4000-6000	225
THD-600	600	24	800	1360 x 950 x 2080	280 x 280 x 135	6000-8000	250
THD-800	800	30	1100	1380 x 1150 x 2250	280 x 280 x 135	8000-10000	300
THD-1000	1000	36	3000	1400 x 1200 x 2600	280 x 280 x 135	8000-12000	360

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Chiller



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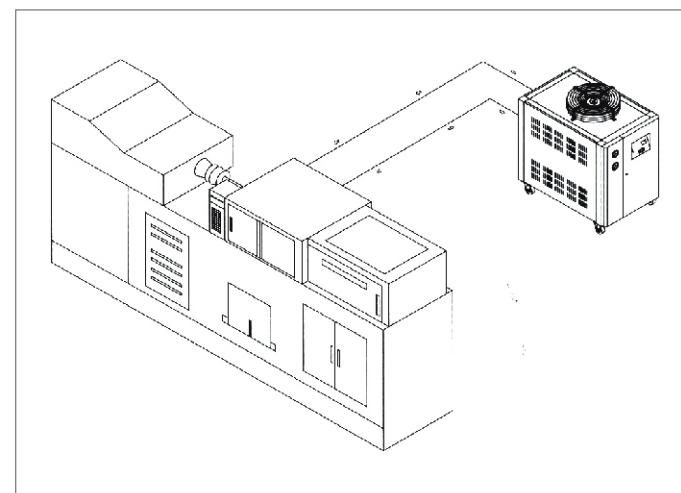
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Performance characteristics

- The device can cool the water temperature ranging from 7°C to 35°C. The low cooling temperature can be customized as per customer's needs.
- The micro computer controls the system running and the temperature can be precise to $\pm 1^\circ\text{C}$.
- The overload protection device is used for compressor and pump to prolong the service life.
- The multiprotection device (anti-freezing protection, high & low pressure protection & flow protection) ensures the system safety.
- The water tank is made from stainless steel & has a heat insulation layer. Freezing pipelines have the insulation layer to improve refrigerating efficiency.
- Low speed and noise blower fan.
- The blower fan stops along with the compressor, thus effective electric energy saving.

Diagram of installation



Specifications

Model		TL-3A	TL-5A	TL-10A	TL-15A	TL-20A	TL-30A	TL-40A	TL-50A	TL-60A
Refrigeration capacity	Kw	10	15	30	45	60	90	120	150	180
	Kcal/h	7740	12900	25800	38700	51600	77400	103200	129000	154800
Compressor	Input power	Kw	2.2	3.7	7.5	11	15	22.5	30	37.5
	Type	HP	3	5	10	15	20	30	40	50
Flexible Rotary Compressor										
Evaporator	Type	Serpentine pipe type of evaporator					Shell type of evaporator			
	Pipe Diameter	Inch	—	—	—	—	2.5	3	3	4
Refrigerant	Type	R22								
	Filling Quantity	Kg	1.5	2.5	5	7.5	10	12	18	30
Condenser	Type	Finned Condenser								
Fan Motor	Power	Kw	0.45	0.45	0.45 x 2	0.65 x 2	0.65 x 2	0.65 x 4	0.65 x 4	1.1 x 2
	Type	Axial flow type blower fan								
Water tank capacity		Liter	60	90	180	270	360	—	—	—
Freezing	Freezing	m³/h	3.6	5.4	11	16	16	16	23	28
	Water Flow Rate	L/min	60	90	180	270	270	270	380	460
Safeguard		Protection of high & low pressure, compressor overload, pump overload				Protection of high & low pressure, compressor overload, pump overload, anti-freezing, flow rate				
Power		AC3+N+PE 50/60Hz								
Pipe Size	Freeze water in	Inch	1	1	1.5	2	2	3	3	4
	Freeze water out	Inch	1	1	1.5	2	2.5	3	3	4
Dimensions (mm)	L	750	1100	1450	2200	2200	2200	2500	2200	3000
	H	680	680	790	1000	1320	1320	1200	2000	2200
Weight	Kg	100	160	300	700	750	1400	1600	2200	2400

Note :

The working conditions for refrigeration :

Freezing water inlet temperature is 12°C, and the outlet temperature is 7°C
Air side inlet (environmental temperature) is 35°C



Mold Temp. Controller



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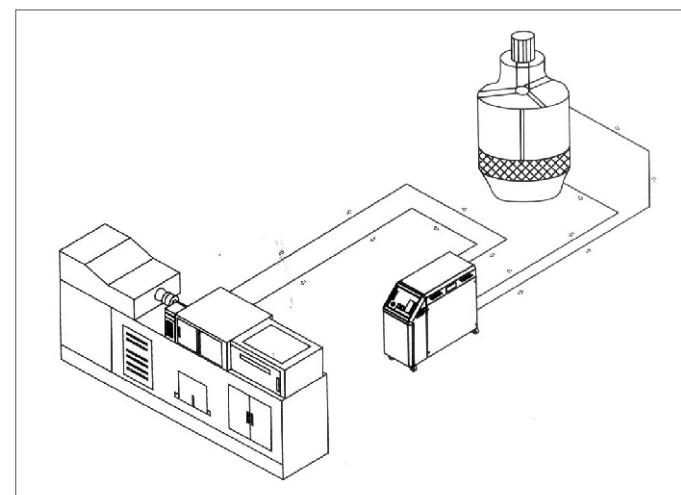
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Performance characteristics

- Controlled by PLC base accurate humidity control.
- Pump overload protection.
- Alarm device for low liquid level to guarantee system running.
- Phase reverse alarm.
- The heating barrel is made from the stainless steel and cleaned early.
- It can show the temperature of inlet water / oil and out water / oil.
- It can show the electrical current of water pump / oil pump.
- Leak proof function for changing the moulds. If you choose the leak proof function, the oil / water can be evacuated before changing the mould.
- The device is equipped with multi-fault indicator to facilitate the customer knowing the reason and solving in time.
- Switch of main power source conforms to CE safety standard.

Diagram of installation



Specifications

Model	Max Temp. (°C)	Heat (kw)	Pump (kw)	Flux L/min	Heating Medium	Cooling Mode	Mold Tie (inch)	External Dimensions (L x W x H)	Weight (kg)
TTC-6W	95	6	0.37	45	Water	Direct	3/8" 2 x 2	780 x 260 x 650	65
TTC-9W	95	9	0.75	56	"	"	3/8" 4 x 2	780 x 260 x 650	68
TTC-12W	95	12	1.5	80	"	"	3/8" 6 x 2	780 x 260 x 650	70
TTC-18W	95	9 x 2	1.5	200	"	"	3/8" 6 x 2	900 x 400 x 810	100
TTC-24W	95	12 x 2	2.2	315	"	"	3/8" 6 x 2	900 x 400 x 810	100
TTC-6	160	6	0.37	45	Oil	Indirect	3/8" 2 x 2	780 x 260 x 650	70
TTC-9	160	9	0.75	56	"	"	3/8" 4 x 2	780 x 260 x 650	73
TTC-12	160	12	1.5	80	"	"	3/8" 6 x 2	780 x 260 x 650	75
TTC-18	160	9 x 2	1.5	200	"	"	3/8" 6 x 2	900 x 400 x 810	110
TTC-24	160	12 x 2	2.2	315	"	"	3/8" 6 x 2	900 x 400 x 810	110
TTCH-9W	160	9	0.75	165	Water	Indirect	3/8" 4 x 2	900 x 400 x 810	90
TTCH-12W	160	13	1.5	235	"	"	3/8" 4 x 2	900 x 400 x 810	115
TTCH-24W	160	24	2.2	315	"	"	3/8" 4 x 2	900 x 400 x 810	130
TTCH-9	300	9	0.55	45	Oil	Indirect	3/8" 4 x 2	900 x 400 x 810	120
TTCH-12	300	12	0.75	60	"	"	3/8" 4 x 2	900 x 400 x 810	140
TTCH-24	300	24	1.5	165	"	"	3/8" 4 x 2	900 x 400 x 810	210
TTC-6W-2D	95	6 x 2	0.37 x 2	45 x 2	Water	Direct	3/8" 2 x 4	900 x 400 x 810	110
TTC-9W-2D	95	9 x 2	0.75 x 2	56 x 2	"	"	3/8" 4 x 4	900 x 400 x 810	115
STC-6-2D	160	6 x 2	0.37 x 2	45 x 2	Oil	Indirect	3/8" 2 x 4	900 x 400 x 810	120
TTC-9-2D	160	9 x 2	0.75 x 2	56 x 2	"	"	3/8" 4 x 4	900 x 400 x 810	125

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Mixer



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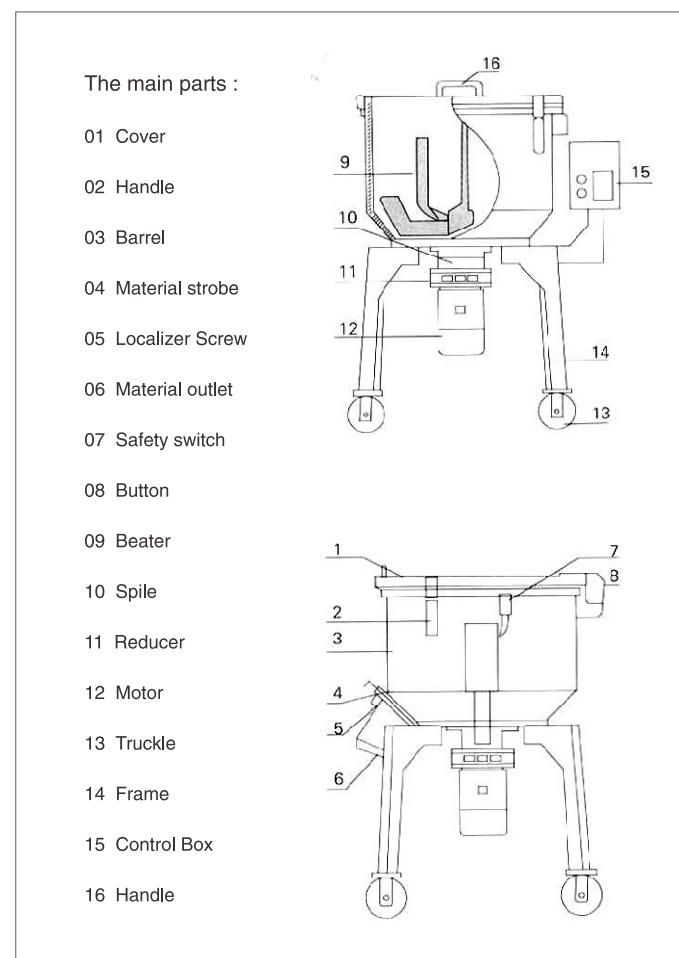
Performance characteristics

TST series of color mixer provide low cost, compact structure and accessibility of maintenance.

Special Features :

- Both mixing pail and vane are made of stainless steel, easy to clean and absolutely no polluting.
- The chain safety device can protect the safety of operator and machine.
- The material is thick, strong and durable.
- Complete mixing can be done in a short time, low energy consumption and high efficiency.
- Time setting can be controlled easily and precisely in the range of 0-15 minutes.

Diagram of installation



Specifications

Model	Motor Power (kw)	Capacity (kg)	Power (v)	Mix Type	External Dimensions (L x W x H)	Weight (kg)
TST-50	1.5	50	AC3 50/60Hz	Roll	830 x 830 x 1120	130
TST-100	3	100	AC3 50/60Hz	"	1000 x 1000 x 1280	190
TSB-50	1.5	50	AC3 50/60Hz	"	830 x 830 x 1120	130
TSB-100	3	100	AC3 50/60Hz	Vane	1000 x 1000 x 1280	190
TSB-150	4	150	AC3 50/60Hz	"	1130 x 1130 x 1380	250
TSB-200	5.5	200	AC3 50/60Hz	"	1200 x 1200 x 1500	320



Low Speed Crusher Middle Speed Crusher



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Performance characteristics

Medium Speed Crusher series

TG-FET series medium speed granulator is designed for waste recycling unit, including small parts, sprue, bottles, plastic containers, injection molded parts and film etc. Its structure is impact and operation is convenient. The design of rotor's knives can save electricity and make cutting efficiency more excellent. With feature of low rotational speed, low noise, less dust and convenient operation.

- Motor overload protector.
- The chain safety device can protect the safety of operator and machine.
- The main power isolated switch.
- Cutting is made of special steel, so it is sharp, wearable and crushing granules with little dust.
- Design for modularized structure, for easy cleaning and maintenance.
- Four wheels for easy moving.

Low Speed Crusher series

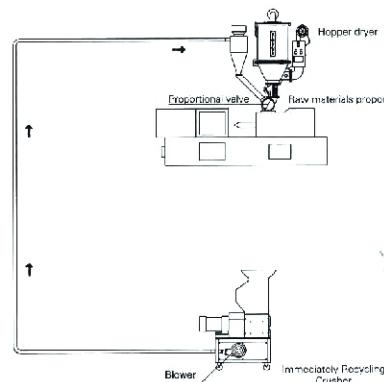
TG series granulators operate in super low speed to cut materials into well-proportioned granule. There are least dusts produced in the cutting process. Multiple security devices ensure high safety grade. This series of screen less granulators are suitable for granulating transparent, hard and thick materials.

- Excellent gear motor features reliable performance, long service life and high torque.
- Integral design of teeth cutters and staggered blades makes roughly grinding and fine grinding simultaneously to mix with new materials.
- Even granule with little dust.
- Unique transmission design makes it running stably with low noise level.
- Precise structure design, little space occupation and easy to clean.
- Easy motor installation and maintenance.

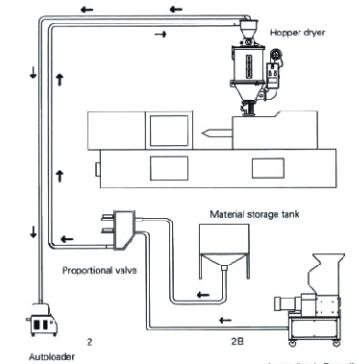
Explanation :

- The standard equipment is with material storage box.
- If the model to be chosen with loader, it must be added "2B" behind.
- If the model to be chosen with proportional valve, it must be added "2C" behind.

Diagram of installation



"2B" with blower for material loading



"2C" with proportional valve

Specifications

Model	Chamber Calibre (mm)	Crush Capacity (kg/h)	Rotating / Fixed Blade (pcs)	Rotational speed	Motor (kw)	Blower	External Dimensions (L x W x H)	Weight (kg)
TG-2416-2B	240 x 160	15-30	—	28	1.5	0.55	1020 x 400 x 1400	110
TG-2416-2C	240 x 160	15-30	—	28	1.5	—	1020 x 400 x 1400	110
TG-2425-2B	240 x 250	30-50	—	28	1.5	0.55	1020 x 400 x 1400	120
TG-2425-2C	240 x 250	30-50	—	28	1.5	—	1020 x 400 x 1400	120
TG-2838-2B	280 x 380	50-80	—	28	2.2	0.55	1200 x 500 x 1400	180
TG-2838-2C	280 x 380	50-80	—	28	2.2	—	1200 x 500 x 1400	180
TG-4140-2B	410 x 400	80-100	—	28	3	0.55	1400 x 550 x 1500	250
TG-4140-2C	410 x 400	80-100	—	28	3	—	1400 x 550 x 1500	250
TG-180FET-2B	200 x 180	30-50	9/2	280	1.5	0.55	1020 x 400 x 1115	120
TG-180FET-2C	200 x 180	30-50	9/2	280	1.5	—	1020 x 400 x 1115	120
TG-240FET-2B	200 x 240	50-80	12/2	280	1.5	0.55	1020 x 400 x 1115	160
TG-240FET-2C	200 x 240	50-80	12/2	280	1.5	—	1020 x 400 x 1115	160
TG-300FET-2B	200 x 360	50-100	15/2	280	2.2	0.75	1100 x 500 x 1200	200
TG-300FET-2C	200 x 360	50-100	15/2	280	2.2	—	1100 x 500 x 1200	200
TG-180FE-2B	200 x 180	30-50	9/2	280	1.5	0.55	1020 x 400 x 1115	120
TG-180FE-2C	200 x 180	30-50	9/2	280	1.5	—	1020 x 400 x 1115	120
TG-240FE-2B	240 x 240	50-80	12/2	280	1.5	0.55	1020 x 400 x 1115	160
TG-240FE-2C	240 x 240	50-80	12/2	280	1.5	—	1020 x 400 x 1115	160

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High Speed Crusher



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Performance characteristics

Strong Crusher series

The device is applicable to centralized pulverizing of all kinds of plastics, including the waste of injection molding and extrusion forming. The structure of Crusher is compact for convenient operation, easy cleaning and maintenance which enhances the working efficiency.

Features :

- The knife tool is refined of imported special tool-steel, the clearance between knife tools are adjustable, since it become blunt by using, it can be dismounted repeatedly, it is durable.
- Using high-intensity steel screws to fasten the knife and knife seat, having strong bearing capacity.
- All walls of shredder chamber are treated by soundproof, so having extra low noise.
- The electric motor has over-loading protection with power source interlock protection device.
- Double-safety protection for operators and electric motors.
- Step-type motion knife design with strong breaking capacity.

Screen & Blade Design



Specifications

Model	Chamber Calibre (mm)	Crush Capacity (kg/h)	Rotating Blade (pcs)	Fixed Blade (pcs)	Motor (kw)	External Dimensions (L x W x H)	Weight (kg)
TG-230F	200 x 230	100-150	3 x 2	2 x 1	4	920 x 610 x 1050	250
TG-300F	200 x 300	150-200	3 x 3	2 x 1	5.5	950 x 740 x 1190	400
TG-400F	235 x 400	200-250	3 x 4	2 x 1	7.5	980 x 840 x 1300	500
TG-500F	290 x 500	300-350	3 x 5	2 x 2	11	1100 x 1020 x 1530	950
TG-600F	320 x 600	350-450	3 x 6	2 x 2	15	1200 x 1110 x 1690	1300
TG-800F	540 x 810	450-600	3 x 4	2 x 2	22	2200 x 1500 x 2300	2100
TG-1000F	660 x 1000	600-1000	3 x 5	2 x 3	30	2300 x 1750 x 2650	2500
TG-1200F	800 x 1200	800-1200	3 x 6	2 x 3	45	2700 x 2100 x 3100	3500



Autoloader



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Performance characteristics

TAL series vacuum auto-loader device adopt stainless steel material hopper, high performance vacuum motor, motor protective device and material storage alarm. They all have characters of compact size, light weight, strong vacuum suction, easy installation, simple operation and good durability.

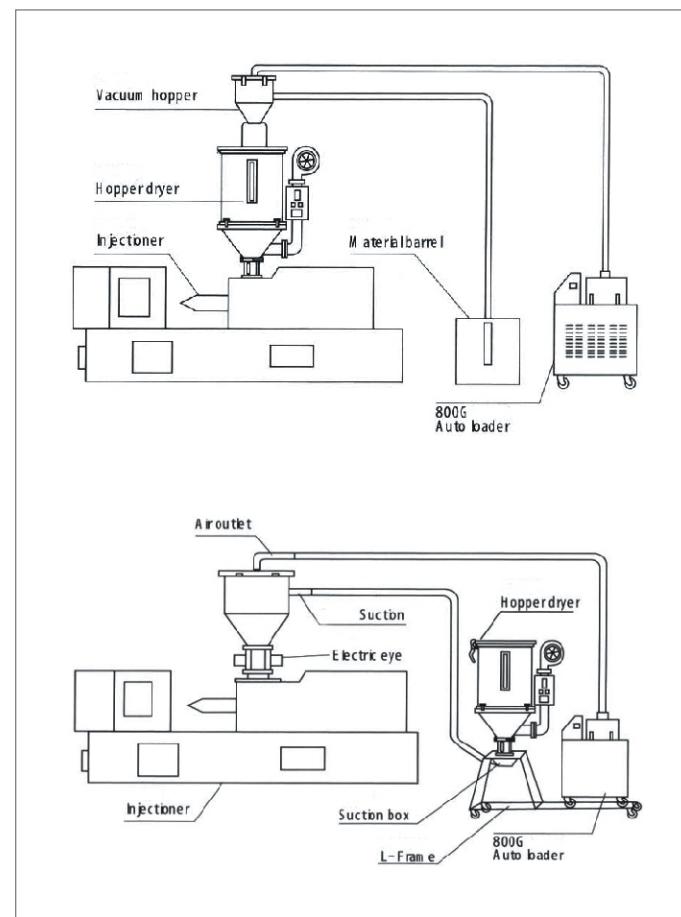
Special Features :

- The main controller and the material hopper are designed separately, so it is safe and convenient to use.
- Operation is controlled by MICRO TRIP.
- The filtering device is independent, so it is convenient to clean.
- Stainless steel material hopper is light, durable and easy to clean.
- Independent design of control box is easy for maintenance.
- Auto buzzer for warning lack of materials.
- Dust filter switch can be control and reverse running of motor for dust removal purpose.

One Piece Complete Type Autoloader

- Imported high speed commutator motor, small cubage and strong suction.
- Connection between operation controller and electric control box free and convenient operation.
- The micro computer controls the accurate action.
- Out hanged air storage device to thoroughly clean the dust on the strainer.
- Electronic action detector and low fault rate.
- Multi fault indicator lamp to facilitate the customer knowing the reason and handling in time.

Diagram of installation



Specifications

Model	Motor (kw)	Conveying Capacity (kg/hr)	Conveying Height (m)	Material Hopper Volume (L)	Conveying Tube Calibre (mm)	External Dimensions		Weight (kg)	
						Controller (L x W x H)	Material Hopper (L x W x H)	Controller	Material Hopper
TAL-300C	1	250	4.5	6	ø38	360 x 260 x 500	—	10	—
TAL-300CE	1	250	4.5	6	ø38	360 x 260 x 600	—	10	—
TAL-360	1.1	300	4.5	6	ø38	320 x 260 x 570	—	12	—
TAL-360E	1.1	300	4.5	6	ø38	320 x 320 x 600	—	13	—
TAL-390	1.2	350	4.5	12	ø38	400 x 380 x 600	—	19	—
TAL-390E	1.2	350	4.5	12	ø38	400 x 300 x 500	—	19	—
TAL-400	0.75	350	4.5	12	ø38	400 x 300 x 500	—	25	—
TAL-700G	1	300	4.5	6	ø38	400 x 300 x 500	430 x 260 x 430	30	6
TAL-700GE	1	300	4.5	6	ø38	430 x 380 x 600	360 x 260 x 530	30	6
TAL-800G1	1.1	350	4.5	6	ø38	430 x 380 x 600	360 x 260 x 430	45	6
TAL-800G1E	1.1	350	4.5	6	ø38	430 x 380 x 600	360 x 260 x 530	45	6
TAL-800G2	1.5	400	5	6	ø38	430 x 380 x 600	400 x 260 x 430	50	10
TAL-800G2E	1.5	400	5	6	ø38	430 x 380 x 600	400 x 260 x 530	50	10
TAL-3HP	2.2	550	7	12	ø38	450 x 380 x 800	400 x 260 x 750	60	12
TAL-4HP	3	600	8	20	ø38	450 x 380 x 800	400 x 260 x 750	65	12
TAL-5HP	3.7	700	8	20	ø38	450 x 380 x 800	400 x 350 x 750	75	20
TAL-7.5HP	5	800	10	30	ø58	450 x 380 x 800	400 x 350 x 1000	90	25
TAL-10HP	7.5	1000	12	30	ø58	450 x 380 x 800	400 x 350 x 1000	90	25

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Cabinet Dryer



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Performance characteristics

THD series of cabinet dryers are mostly used for simultaneous drying of different kinds of polymers in small quantities or for drying materials for trial moulding. They can also be applied in electronic engineering, electroplating, pharmacy, paint baking, printing industries, etc. for preheating or drying related products.

- Controlled by P. I. D. accurate electronic temperature controller.
- Heat-sealed door can keep consistent temperature inside of machine and minimize power consumption.
- Stainless steel trays and internal parts can keep the material free from pollution. Easy for maintenance
- Air inlet and outlet is designed to easily adjust the air flow.
- Over temperature protector.
- This machine is with 2 hours' timer which is more easier to use.

Each cabinet contains removable trays, into which the material to be dried. During operation, a blower forces air through a heating chamber located on one side of the cabinet. The heated air then passes through a perforated side wall and over the trays of polymer material. As the material dries, the moist air is exhausted through the other side of the cabinet.

Material Tray Design



Specifications

Model	Heater Power (kw)	Blower Power (kw)	Temperature range (°C)	Number of Trays	Capacity (kg)	External Dimensions (L x W x H)	Weight (kg)
TD-5	6	0.75	250	5	45	85 x 70 x 110	154
TD-9	6	0.75	250	9	80	85 x 70 x 145	190