

DESS DRYING SYSTEM



- The highly developed DESS drying system from Maintech will significantly reduce your energy consumption and improve your product quality and consistency, giving you the competitive edge in your market.
- The DESS system allows you to spend less time involved with your material handling equipment and more time making profit.
- Your customers will be confident you have chosen Maintech DESS as this will reduce you process variables ensuring consistent quality order after order.

ESPECIALLY SUITED TO HIGH THROUGH PUT AND HIGH TEMPERATURE APPLICATIONS

The Maintech DESS system is designed and proven in high temperature and through put environments such as injection moulding and extrusion markets where energy savings are greatest.



INTUITIVE, FULL COLOUR, TOUCH SCREEN OPERATOR INTERFACE HMI

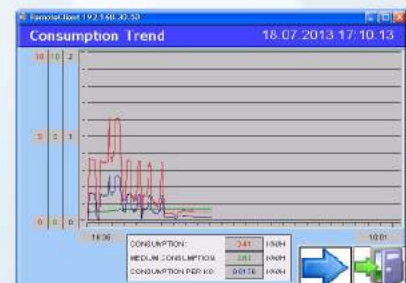
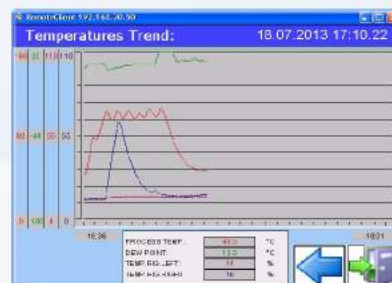
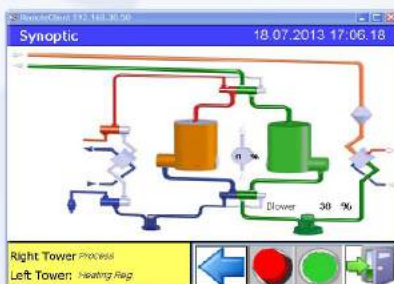
The Maintech DESS system gives you class leading viability and control of your drying process, QUICK VIEW of all of the vital perimeters such as, process air flow, process and regeneration temperature, dew point, material through put per hour and real time information on power consumption.

MAXIMIZE SYSTEM UP TIME

Via the HMI full colour display you can view trending of all the vital statistic and monitor when the next routine maintenance is required and what spare parts are required.

PRECISE CONTROL OVER YOUR DRYING PROCESS

The only path to consistently producing high quality product while lowering your energy consumption is by fine-tuning your drying process.



IMPROVED PRODUCT
QUALITY AND CONSISTENCY
BOOSTS CUSTOMER CONFIDENCE



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Special functions inbuilt into the Touch system EVO controlled dryer:

- **Control of hopper filling systems and management of capacity via required material through put;**

The operator can input a material through put per hour and this system works with the continuous level monitoring and control function to ensure that the correct level is maintained in the drying hopper according to the drying residence time.

- **Automatic management of the dryer working perimeters;**

The EVO dryer control is preloaded with a list of general material types and their drying perimeters including the drying residence time, air flow, bulk density and drying dew point, using the Quick set guide the dryer will set up the most energy efficient conditions and you are ready to run. This system works in conjunction with the hopper filling system management to ensure the correct hopper level.

- **Management of the material temperature profile in the drying hopper.**

Using the multi position temperature monitoring probe the dryer capacity is accurately controlled and managed, at the same time this system logs and stores the temperature profile within the drying hopper so that this information can be checked at any time to establish if filters are becoming blocked or desiccant is coming to the end of its working life, also this information can be cross referenced between different production runs to ensure consistent efficiency.

- **Management of material anti-stress .** The EVO dryer control can be set with an End of drying

perimeter, this means that once the level in the drying hopper is reached and the consumption of material is reduced or stopped the material will carry on drying until a stored temperature and dew point profile is maintained for a set period then the dryer goes into stand by mode, the drying air flow is reduced, the hopper level is monitored, and the drying temperature is reduced to reduce the thermal stress on the material as well as reducing energy consumption

The capacity of the system is automatically increased when new material enters the drying hopper or is taken away to the process machine.

- **Dryer alarm records** All alarms from the dryer hopper and loading systems can be stored on a real time basis, these alarms will be store for long periods and they can be deleted as you wish, the alarms are of 2 levels, blocking which will shut down the systems and non blocking which will show as an alarm but does not stop the machine.

- **Graphic management of the dew point** of the process air stream, this can be displayed via the colour graphic display and will show the dew point track over time, the dew point curves can be overlaid to determine desiccant material performance.

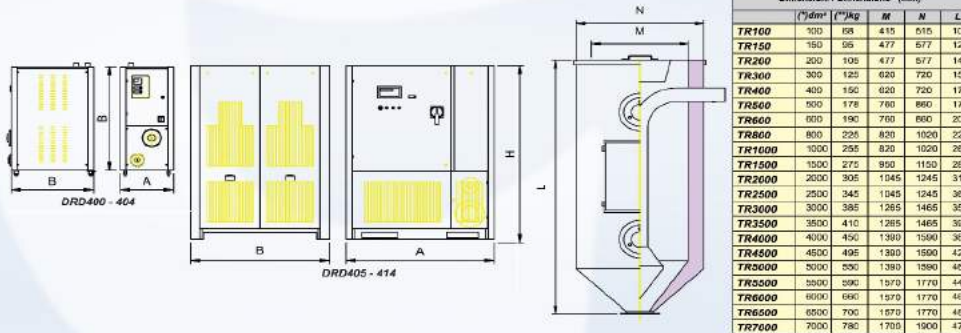
- **Graphic management and display** of system power consumption. With this function you can monitor in real time the energy consumption in KWh and also display the consumption in Watts/Kg of material per hour, this function requires the energy consumption control kit.

- **Remote alarm system** The EVO dryer control system can be fitted with a system that will send text messages to personnel to advise of a problem this is done using the Apple or Android operating systems, this function can also display all the functions of the EVO dryer.

(there is a cost per phone licence for this facility and you need a suitable contract).

DATI TECNICI / TECHNICAL DATA	DESS DRD400	DESS DRD401	DESS DRD402	DESS DRD403	DESS DRD404	DESS DRD405	DESS DRD406	DESS DRD407	DESS DRD408	DESS DRD409	DESS DRD410	DESS DRD411	DESS DRD412	DESS DRD413	DESS DRD414	
Portata aria Air flow	m ³ /h	85	125	145	180	230	360	510	800	1000	1200	1400	1700	2200	2700	3800
Pressione statica Static pressure	kPa(mbar)	25(240)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)	25(250)
Potenza soffiante Blower power	kW	0.25	0.85	1.3	1.6	3	4	5.5	7.5	8.5	12.5	15	8.0+8.5	15+15	12.5+12.5+15	15+15+15
Potenza riscaldamento Heating power	kW	2.5(3.5)	3.5(5)	5(7)	7(9)	9(12)	19(25)	25(32)	32(44)	36(48)	46(60)	60(72)	72(84)	84(105)	105(160)	160(200)
Potenza totale installata Total power	kW	5.5(6.5)	7(7.8)	8.8(10.8)	13(15)	17(20)	39(45)	47(54)	56(68)	66(78)	82(94)	101(113)	115(127)	165(186)	194(240)	258(296)
Tensione Voltage	V~Hz	400V/3/50-60Hz														
Temperatura max processo Max process temperature	°C	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)	150 (°200)
Consumo medio a 80°C Average consumption 80°C	kWh	30% ENERGY SAVING CONSUMPTION COMPARED TO A CONVENTIONAL SYSTEM														
Dimensioni Dimensions	AxB mm	300x300 1270	500x650 1270	530x850 1278	750x1200 1900	750x1300 1900	1300x1300 2170	1300x1300 2170	1300x1300 2170	1500x1770 1550	1500x1770 1550	1650x1770 1550	1650x1770 1550	1600x2400 2170	1600x2400 2170	1600x2400 2170
Rumorosità Noise level	dB(A)	<75	<75	<75	<75	<75	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
Peso Unit weight	kg	135	145	150	240	280	700	800	1100	1800	1900	2100	2300	2000	2800	3200

*Versione HT / HT Version



(*)Capacità tramoggia / Hopper capacity
(**)Peso tramoggia / Hopper weight

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Main Tech S.r.l Via Arno 53/1
30030 Mellaredo di Pianiga (Venezia) Italy
Tel + 39 0415190537 Fax +39 0415171321
maintechworld.it info@maintechworld.it

