



VISDAMAX (M) SDN. BHD.

Boilers, Timber Drying Systems, Power Generation Plants, Incinerators

TRACK LOADED KILNS MODEL KDSTL & KDDTL (Medium Temperature)



Features

Heating Medium	Hot water, steam or thermal oil.
Heating Coils	Bi-metallic and extruded with aluminium fins and carbon or *stainless steel inner tubes.
Temperature & Humidity Controller	Fully automatic controller with centralized computer to control all controllers.
Humidification	Live steam (steam heating) or hot water via atomizing nozzles (hot water heating) or *saturated steam at atmospheric by steaming trough. *Warm water humidification to prevent overheating by live steam.
Control Valves	On/Off or *modulating
Prefabricated Chambers	Chamber walls & roof are of rigid polyurethane insulation with aluminium or *stainless steel sheet cladding internally and aluminium sheets externally. Internal structures are fully aluminium with external structures of steel (epoxy coated). They are tailored made to Buyer's specifications.

Notes : Items marked * are optional items that can be supplied upon buyer's request.

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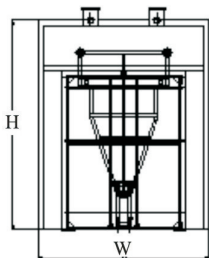
Single Track Kiln



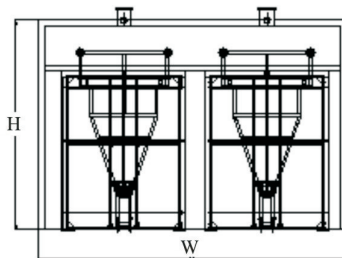
Double Track Kiln

TYPES		SINGLE TRACK LOADED				DOUBLE TRACK LOADED				
SPEC.		MODEL	KDSTL 30	KDSTL 60	KDSTL 90	KDSTL 120	KDDTL 60	KDDTL 120	KDDTL 180	KDDTL 240
Dimensions (mm)	W		4,600	4,600	4,600	4,600	7,900	7,900	7,900	7,900
	L		7,000	13,200	19,500	25,500	7,000	13,200	19,500	25,500
	H		6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Nett Holding Capacity (m ³)			30	60	90	120	60	120	180	240
Diameter of fan (mm)			1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Number of fans			3	6	9	12	3	6	9	12
Installed Heating Surface (m ²) - up to 90°C operation										
a) Hot Water			230	443	673	887	443	887	1,330	1,770
b) Steam			75	163	216	285	163	326	489	652
Kw (installed)										
a) Hot Water			12	24	36	48	16.5	33	49.5	66
b) Steam			12	24	36	48	12	24	36	48
Air Volume (m ³ /m)			1,350	2,400	3,600	5,000	1,900	3,800	5,700	7,600
Air Speed [Hot] (m/sec.)			2 - 3.5	2 - 3.5	2 - 3.5	2 - 3.5	2 - 3.5	2 - 3.5	2 - 3.5	2 - 3.5
Ventilators (set)			6	12	18	24	6	12	18	24
Control System			FULLY AUTOMATIC							

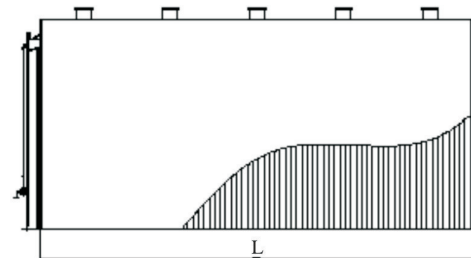
Notes : The above data are subjected to change where necessary for improvement.



Single Track



Double Track



Side Elevation

Rigid urethane foam is the most efficient insulating material available. It has twice the insulating power of the next best material-polystyrene foam. In the laboratory, the insulating power of a material is measured as K factor, the coefficient of Heat Transfer (expressed in B.t.u./hr./ft²/°F/inch). In the field, the heat flow of a material is frequently referred to as R or Resistivity (measured as thickness in inches/K). With rigid urethane foam, it is possible to have K factor of 0.11 and an R of 9.0 per inch. The table below shows how this insulating efficiency compares with other widely used materials.

Material	K Factor	R for 1-in. Thick Material
Glass Foam	0.40	2.5
Dry Mineral Wool	0.30	3.3
Dry Cork	0.28	3.6
Dry Glass Fiber	0.26	3.8
Rigid Polystyrene Foam	0.23	4.2
Rigid Urethane Foam	0.11	9.0

Rigid Polyurethane	Mineral Wool	Glass Fiber
65 mm thick	175 mm thick	154 mm thick
85 mm thick	230 mm thick	200 mm thick

COMPARISON ON THICKNESS OF INSULATING MATERIALS REQUIRED FOR SAME DEGREE OF INSULATION