

Medical Air Plant / Surgical Air Plant

The WTK Medical Air Plants / Surgical Air Plants are designed and built to supply medical quality air for Respiration and Surgical needs. Medical and Surgical Air are used generally in Operation Theatres, Intensive and Coronary Care Units, Delivery, Neonatal and Emergency Departments.

WTK Medical Air Plants / Surgical Air Plant are built in accordance to HTM2022, C11, EN1441:1997, EN737 standards and types of Medical Air Plants are determined based on the circulation and requirements of HTM 2022 and EN 737 flow requirements.

Electrical Requirement for Medical Air Plants are depending upon the country used and all internal electrical wiring and cable connections are in accordance to IEE wiring regulations.



Description

WTK is offering Medical Air Plant for Simplex, Duplex, Triplex and Quaduplex compressors. The Medical Air Plant / Surgical Air Plant consists of Air Compressor (Screw or Piston or Oil Free type), Heatless Desiccant type Dryer, Electrical Control Panel, Duplex Regulator Set (4-7 bar regulation), Filtration Group and Air Reservoir.

A choice of pressure is available from 10, 15, 20 or 30 bar.

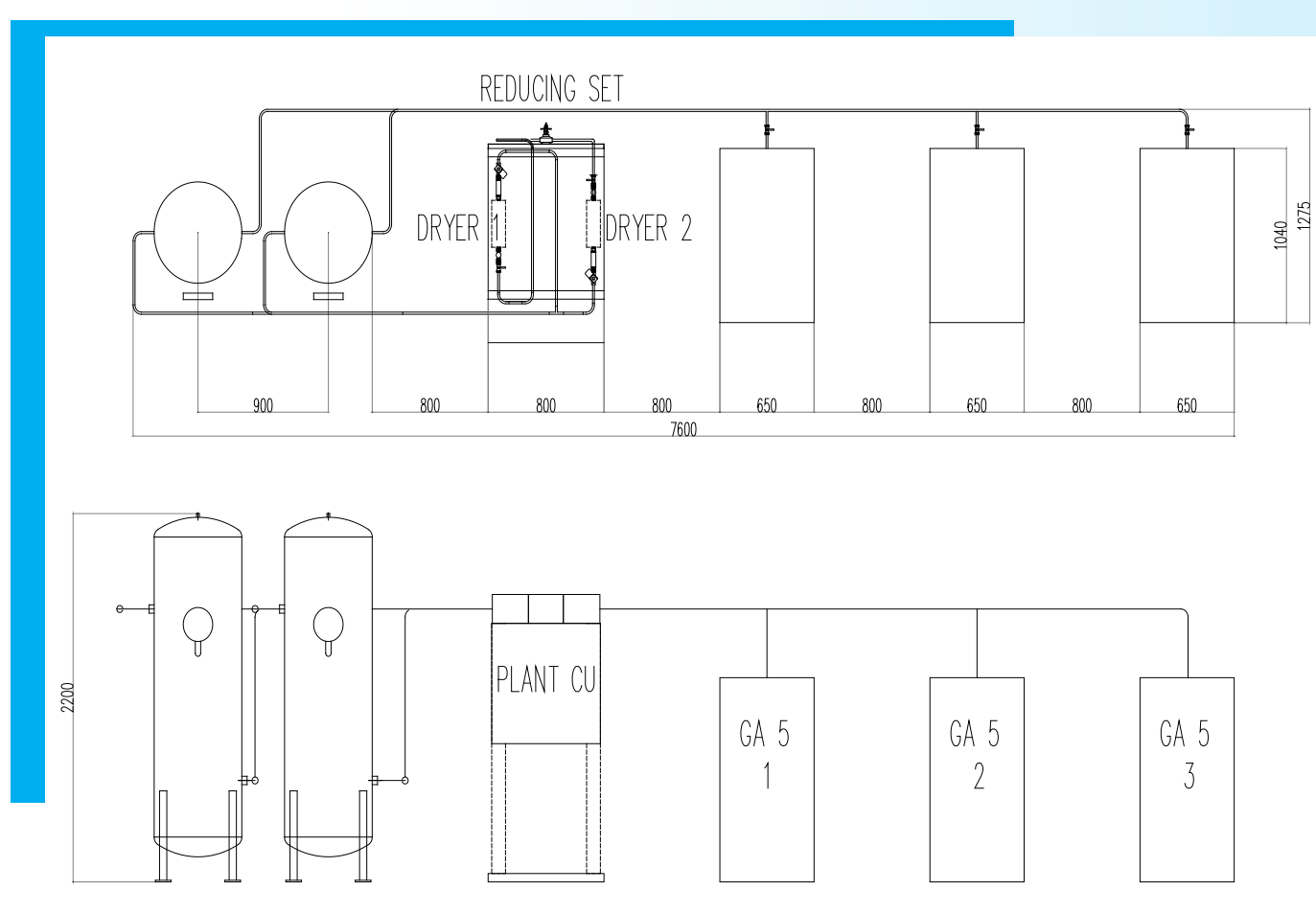
1. A choice of capacity for piston type compressor is available from 2.1 to 31.7 L/s (126 L/Min to 1902 L/Min).
2. A choice of capacity for screw type compressor is available from 8 to 222 L/s (480 L/Min to 13320 L/Min).
3. A choice of power is available from 1.5 to 45 kW.

Electrical control panel has been designed to control the plant up to maximum 4 compressors (or more depending on design requirement) and operate and protect the electrical systems.



Compact Design

Typical Layout Of Medical / Surgical Air Plant



Innovative Design in Medical Engineering

Technical Specification

MS 2675-1:2017 Medical gas systems
 HTM 2022:1997/HTM02-01 – Medical Gas Pipeline system
 HTM 2020 – Electrical Safety Low Voltage System
 C11 – NHS Estates Model Engineering Specification
 EN737-3: 1998 – Medical Gas Pipeline System
 EN ISO 7396-1 – Medical gas pipeline systems

Designation : WT26000 Medical Air Plant / Surgical Air Plant
 Configuration : Simplex / Duplex / Triplex / Quaduplex
 Dimension : Varies
 Components : Compressor / Dryers / Control Panel / Filters / Receivers
 Electronics : Touchscreen Monitor with PLC control
 Power Rating : 415VAC 3 Phase input, 50/60 Hz

Model Number – Medical Air Plant

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
DUPLEX (MS2675-1 / HTM2022 / HTM 02-01)						
WT26001	190	2X1.5	20 A	1850	3100	850
WT26002	250	2X2.2	20 A	1850	3100	850
WT26003	470	2X4.0	25 A	1850	3100	850
WT26004	600	2X5.5	32 A	1850	3100	850
WT26005	900	2X7.5	35 A	2200	3850	950
WT26006	1390	2X11.0	40 A	2400	3850	950
WT26007	1990	2X15.0	63 A	2400	4100	1500
WT26008	2500	2X18.0	80A	2400	4100	1500
WT26009	2970	2X22.0	100A	2600	4100	1500
WT26010	3990	2X30.0	125A	2600	5600	1800
WT26011	4670	2X37.0	125 A	2800	5600	1800
WT26012	5920	2X45.0	145 A	2800	5600	1800

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
TRIPLEX (MS2675-1 / HTM2022)						
WT26021	380	3X1.5	20 A	1850	4100	850
WT26022	500	3X2.2	20 A	1850	4100	850
WT26023	940	3X4.0	25 A	1850	4100	850
WT26024	1200	3X5.5	32 A	1850	4100	850
WT26025	1800	3X7.5	35 A	2200	4850	950
WT26026	2780	3X11.0	40 A	2400	4850	950
WT26027	3980	3X15.0	63 A	2400	5100	1500
WT26028	5000	3X18.0	80 A	2400	5100	1500
WT26029	5940	3X22.0	100 A	2600	5100	1500
WT26030	7980	3X30.0	125 A	2600	7600	1800
WT26031	9340	3X37.0	125 A	2800	7600	1800
WT26032	11840	3X45.0	145 A	2800	7600	1800

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
TRIPLEX (HTM02-01)						
WT26041	190	3X1.5	20 A	1850	4100	850
WT26042	250	3X2.2	20 A	1850	4100	850
WT26043	470	3X4.0	25 A	1850	4100	850
WT26044	600	3X5.5	32 A	1850	4100	850
WT26045	900	3X7.5	35 A	220	4850	950
WT26046	1390	3X11.0	40 A	2400	4850	950
WT26047	1990	3X15.0	63 A	2400	5100	1500
WT26048	2500	3X18.0	80 A	2400	5100	1500
WT26049	2970	3X22.0	100 A	2600	5100	1500
WT26050	3990	3X30.0	125 A	2600	7600	1800
WT26051	4670	3X37.0	125 A	2800	7600	1800
WT26052	5920	3X45.0	145 A	2800	7600	1800

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
QUADUPLEX						
WT26061	380	4X1.5	20 A	1850	5100	850
WT26062	500	4X2.2	20 A	1850	5100	850
WT26063	940	4X4.0	25 A	185	5100	850
WT26064	1200	4X5.5	32 A	1850	5100	850
WT26065	1800	4X7.5	35 A	2200	5850	950
WT26066	2780	4X11.0	40 A	2400	5850	950
WT26067	3980	4X15.0	63 A	2400	6100	1500
WT26068	5000	4X18.0	80 A	2400	6100	1500
WT26069	5940	4X22.0	100 A	2600	6100	1500
WT26070	7980	4X30.0	125 A	2600	8600	1800
WT26071	9340	4X37.0	125 A	2800	8600	1800
WT26072	11840	4X45.0	145 A	2800	8600	1800

Model Number – Surgical Air Plant

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
SIMPLEX (MS2675-1 / HTM2022)						
WT26101	470	1X4.0	25 A	1850	1650	850
WT26102	600	1X5.5	32 A	1850	1650	850
WT26103	900	1X7.5	35 A	2200	2350	950
WT26104	1390	1X11.0	40 A	2400	2350	950
WT26105	1990	1X15.0	63 A	2400	2650	1500
WT26106	2500	1X18.0	80 A	2400	2650	1500
WT26107	2970	1X22.0	100 A	2600	2650	1500
WT26108	3990	1X30.0	125 A	2600	4150	1800
WT26109	4670	1X37.0	125 A	2800	4150	1800
WT26110	5920	1X45.0	145 A	2800	4150	1800

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
SIMPLEX (HTM02-01)						
WT26141	570	1X1.5	20 A	1850	1650	850
WT26142	750	1X2.2	20 A	1850	1650	850
WT26143	141	1X4.0	25 A	1850	1650	850
WT26144	1800	1X5.5	32 A	1850	1650	850
WT26145	2700	1X7.5	35 A	2200	2350	950
WT26146	4170	1X11.0	40 A	2400	2350	950
WT26147	5970	1X15.0	63 A	2400	2650	1500
WT26148	7500	1X18.0	80 A	2400	2650	1500
WT26149	8910	1X22.0	100 A	2600	2650	1500
WT26150	11970	1X30.0	125 A	2600	4150	1800

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
DUPLEX (MS2675-1 / HTM2022)						
WT26121	470	2X4.0	25 A	1850	3100	850
WT26122	600	2X5.5	32 A	1850	3100	850
WT26123	900	2X7.5	35 A	2200	3850	950
WT26124	1390	2X11.0	40 A	2400	3850	950
WT26125	1990	2X15.0	63 A	2400	4100	1500
WT26126	2500	2X18.0	80 A	2400	4100	1500
WT26127	2970	2X22.0	100 A	2600	4100	1500
WT26128	3990	2X30.0	125 A	2600	5600	1800
WT26129	4670	2X37.0	125 A	2800	5600	1800
WT26130	5920	2X45.0	145 A	2800	5600	1800

MODEL	FLOW LPM	KW	FUSE / COMP	H (mm)	L (mm)	D (mm)
DUPLEX (HTM02-01)						
WT26161	570	2X1.5	20 A	1850	3100	850
WT26162	750	2X2.2	20 A	1850	3100	850
WT26163	141	2X4.0	25 A	1850	3100	850
WT26164	1800	2X5.5	32 A	1850	3100	850
WT26165	2700	2X7.5	35 A	2200	3850	950
WT26166	4170	2X11.0	40 A	2400	3850	950
WT26167	5970	2X15.0	63 A	2400	4100	1500
WT26168	7500	2X18.0	80 A	2400	4100	1500
WT26169	8910	2X22.0	100 A	2600	4100	1500
WT26170	11970	2X30.0	125 A	2600	5600	1800



Digital Touchscreen Monitor



Dryer & Filter Set