

# MEDICAL AIR COMPRESSOR SYSTEM

Oilfree Screw Type Water Lubricated.

## COMMERCIAL BROCHURE

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### Arigmed's NFPA99 Medical Air Compressor System Screw Type Water Lubricated.



\*\*Image for illustrative purposes, may vary depending on equipment configurations.

#### CONFIGURATION

- Duplex, Triplex, Quadruplex

#### TECHNOLOGY TYPE

- Oilfree Screw Type Water Lubricated.

#### POWER

- 20 HP, 25 HP, 30 HP, 40 HP, 75 H.P.

#### STANDARD VOLTAGE

- 220v 60Hz. (380V, 440V Upon customer request)

#### DRY AIR TANK

- Configuration Vertical 240 gallons (1000 LITERS).

#### WET AIR TANK

- Configuration Vertical 120 gallons ( 500 LITERS).

#### CERTIFICATES

- ISO 8573-1:2010

- Oil-free screw type water lubricated compressors for 50-55 PSI working pressure and 152 PSI maximum pressure.
- Belt driven transmission, 220v, 380v or 440v, 50hz 60hz electric motor; (must specify in advance to the factory).
- Primary and Secondary Air Aftercoolers with multiple connection block with relief, anti-return and automatic valves for each compressor.
- ASME stamped Dry and Wet Air Storage Tank.
- Control Panel electronic and PLC to coordinate the sequences of the compressors function, alternation and simultaneous use in alarm conditions with an emergency stop. 7" LCD full color touch screen control HIM, alarms displayed and specified by NFPA99, a NEMA12 class enclosure are include.
- Filters and pressure regulation blocks by duplicate to air treatment system with particle, humidity, active carbon and anti-bacterial filters.  
Twin towers type regenerative absorption dryers by duplicate.
- Dew Point and Carbon Monoxide Monitors.

#### DEVICES AND COMPONENTS

- Air refrigerated After coolers stainless steel made to low the temperature between 10°C and 12°C.
- Automatic devices and valves to prevent backflow.
- High temperature sensors mounted on each cylinder of air compressors.
- Automatic purge valves for moisture.
- Air saving system for absorption dryers.
- Duplicate air purifying system, pressure final line regulators, humidity filters, particle filters, carbon filters and anti-bacterial filters.
- Monitoring system for detection of levels of **DEW POINT and CARBON MONOXIDE**.
- Dry contact output ports (Relay) for data extraction and connection with the medical gas alarm master panel.

#### WARRANTY

GRUPO ARIGMED S. de R.L. de C.V. guarantees its equipment and products free of defects in materials and labor for a 12 months or 3000 hours in use, under NORMAL conditions of operation and installation by "CERTIFIED" personnel in ASSE6010 (installer of Medical Gas Systems). It is recommended to consult the operation manual since this type of equipment requires PREVENTIVE Maintenance (approximately every 3000 hours).  
**THE WARRANTY WILL BE INVALID IN THE CASE OF USE OF THE EQUIPMENT WITH VENTURI TYPE SUCTION, CONNECTION WITH DENTAL EQUIPMENT, POINTS OF USE IN LABORATORIES AND STERILIZATION CENTERS AND ANY PROCEDURE OTHER THAN THOSE INTENDED FOR HUMAN CONSUMPTION IN ACCORDANCE WITH WHAT IS SPECIFIED BY THE NFPA99 CODE.**

GRUPO ARIGMED S. DE R.L. DE C.V. TIZAYUCA, ESTADO DE HIDALGO, MÉXICO

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## Structure

### SPECIFICATIONS

#### ● OILFREE SCREW TYPE WATER LUBRICATED COMPRESSOR:

- 1) **Housing:** Soundproof booth, oil-free and water-lubricated screw compressor stainless steel made, belt driven transmission, sealed bearings, made in Germany.
- 2) **Pipings:** Stainless Steel made.
- 3) **Cooling:** Air Refrigerated.
- 4) **Communication:** RTU RS485 Modbus Interface.
- 5) **Water Circulation System:** Electric pump with stainless steel tank and automatic level, control valves (cooling and recirculation of water).
- 6) **Filters:** For liquids and moisture with stainless steel housing.
- 7) **Water Type:** Soft or drinkable (free of salts and minerals).
- 8) **Origin:** Assembled in Taiwan, and Shanghai.

#### ● AIR TREATMENT AND PURIFICATION:

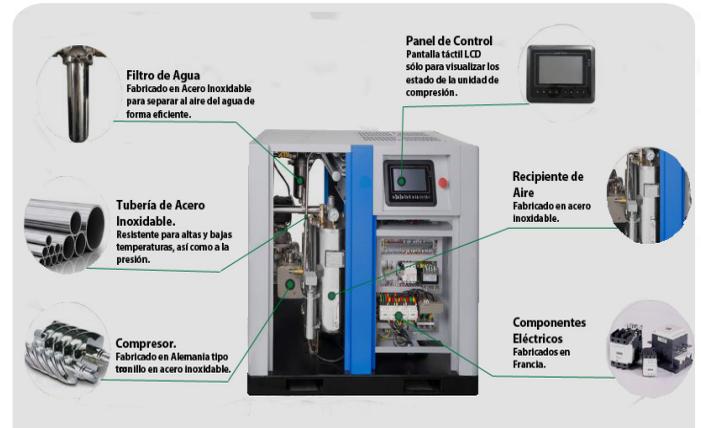
- 1) **Type:** Regenerative by absorption.
- 2) **Structure:** Seamless carbon steel with flanged covers, internal and external baked-on powder coating finish.
- 3) **Absorption element:** Different granulations to improve and greater drying efficiency.
- 4) **Air treatment filters:** Moisture, particles, activated carbon and antibacterial meeting to NFPA 99.
- 5) **Control:** PLC through normally open electric valves.
- 6) **Pipes and connections:** Stainless steel and brass made to prevent corrosion.

#### ● CONTROL PANEL:

- 1) **Enclosure:** Class 12 NEMA.
- 2) **Structure:** Compact panel with programmable logic system, analog outputs for data and alarm signals sending to a medical gas master panel or a centralized BMS system.
- 3) **Electric control devices:** By duplicate meeting NFPA99.
- 4) **AFD:** Upon customer request.



Tornillo de Acero Inoxidable.



SCREW COMPRESSOR



SCREW COMPRESSOR

#### ● SOUNDPROOF BOOTH:

- 1) **Structure:** Galvanized steel sheet made, powder coating finish.
- 2) **Access doors panels:** Fully removable access panels.
- 3) **Ventilation:** Passage grilles for air ventilation.
- 4) **Acoustic isolation:** Made of acoustic sleeves specifically designed for the compressor, it is applied directly to the noise source, thus preventing its propagation.

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### Duplex System Performance

MODELO / MODEL	POTENCIA - POWER	NFPA99-2015 CFM @ 50-55 PSI	NFPA99-2018 CFM @ 50-55 PSI	TANQUE - VESSEL	
	H.P.			TIPO / DESING	CAPACIDAD / CAPACITY (GAL)
DXDVAW-15	20	59	59	VERTICAL	240
DXDVAW-18	25	77	77	VERTICAL	240
DXDVAW-22	30	96	96	VERTICAL	240
DXDVAW-30	40	125	125	VERTICAL	240
DXDVAW-55	75	275	275	VERTICAL	240

### Triplex System Performance

MODELO / MODEL	POTENCIA - POWER	NFPA99-2015 CFM @ 50-55 PSI	NFPA99-2018 CFM @ 50-55 PSI	TANQUE - VESSEL	
	H.P.			TIPO / DESING	CAPACIDAD / CAPACITY (GAL)
TXDVAW-15	20	118	118	VERTICAL	240
TXDVAW-18	25	154	154	VERTICAL	240
TXDVAW-22	30	192	192	VERTICAL	240
TXDVAW-30	40	250	250	VERTICAL	240
TXDVAW-55	75	550	500	VERTICAL	240

### Quadruplex System Performance

MODELO / MODEL	POTENCIA - POWER	NFPA99-2015 CFM @ 50-55 PSI	NFPA99-2018 CFM @ 50-55 PSI	TANQUE - VESSEL	
	H.P.			TIPO / DESING	CAPACIDAD / CAPACITY (GAL)
CDDVAW-15	20	177	177	VERTICAL	240
CDDVAW-18	25	231	231	VERTICAL	240
CDDVAW-22	30	288	288	VERTICAL	240
CDDVAW-30	40	375	375	VERTICAL	240
CDDVAW-55	75	825	825	VERTICAL	240

1 To normal operating conditions with a maximum temperature of 105° F (40.56°C), in case these parameters are exceeded, additional mechanical ventilation is required at the place of operation of the system as specified by NFPA99.

2 All capacities are marked on **standard cubic feet per minute (SCFM)**. One or more compressors in the system must remain on RESERVE or STAND BY, meeting the NFPA99 code.

3 Compressor system working pressure of **50-55 PSI**, and a maximum pressure of **152 PSI**.

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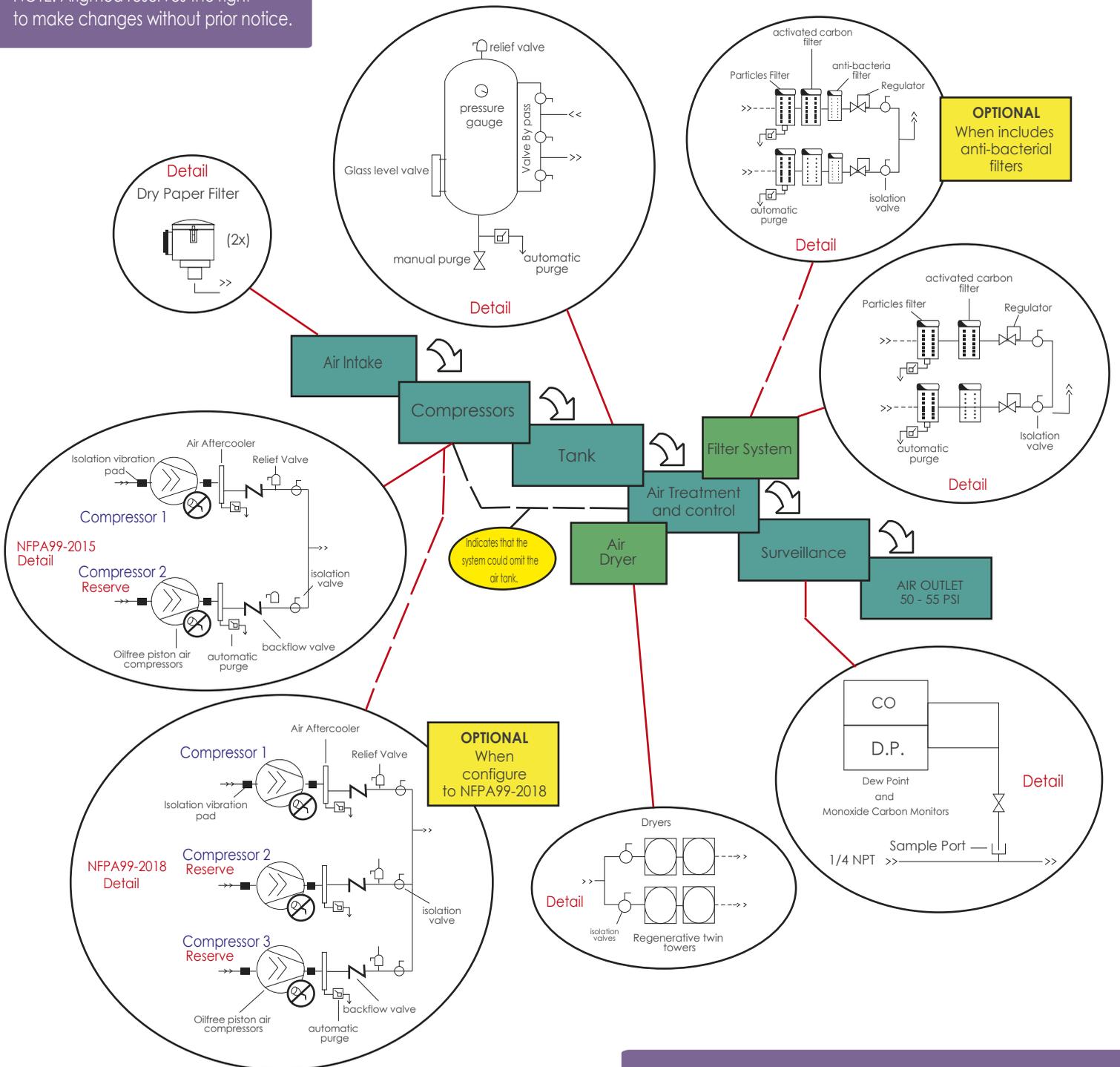
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## EXAMPLE OF A MECHANICAL DIAGRAM FOR A DUPLEX SYSTEM MEETING TO NFPA99-2015 & 2018.

NOTE: Arigmed reserves the right to make changes without prior notice.



Arigmed is a certified company in the ISO 13485:2016 & ISO9001:2015 systems

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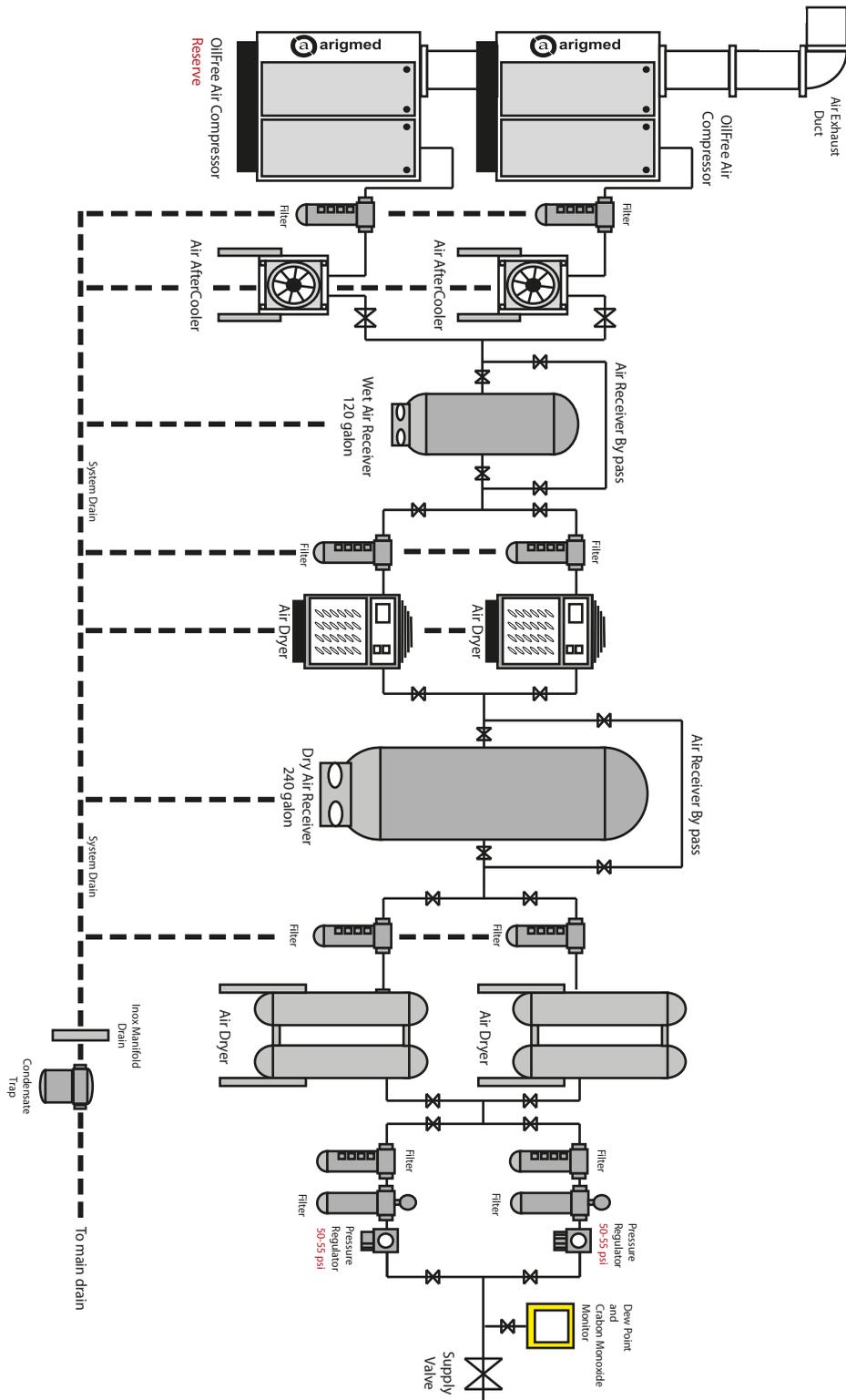
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## EXAMPLE OF A COMPONENT DIAGRAM FOR A DUPLEX SYSTEM MEETING NFPA99-2015



\*\*\* FOR OTHER CONFIGURATIONS CONSULT THE FACTORY \*\*\*

\*\*\*The installation must be carried out by personnel with a valid ASSE6010\*\*\* certificate.  
(Installer of Medical Gas Systems) and ASME BRAZER IX (Qualified Oxy-Acetylene Welder)

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