TITAN

Technický list

@2021 v.1.0

› Description

KingAir® separators are designed exclusively to remove solid impurities, water, aerosols, hydrocarbons, odors from the compressed air system and non-aggressive technical gases such as argon, nitrogen and mixtures thereof. It must not be used for cleaning liquids and aggressive gases such as acetylene.

› Applications

Automotive, chemical and petrochemical industries, plastics, electronics, food and beverages, painting, etc.

› Installation:

Separators are designed to protect terminal equipment. Placing in front of equipment with compressed air consumption is best. The device can also be used to clean the entire backbone. Behind the condensation air dryer, it creates a set of full equipment to drain water, oil, solids and water vapor. It guarantees the efficiency of the device according to the parameters of the manufacturer of condensing dryers. **For safety reasons, the ball valve must always be installed under the separator, even if the device is equipped with an automatic trap. In case of installation without ball valve, the device is considered incomplete and must not be used.**

› Maintenace:

The device is maintenance-free. In the event of a problem, contact CMP Trade Service. Disposed condensate must be disposed of in accordance with the Waste Material Directive. The condensate must not be drained freely into the public sewer or the surrounding environment.

› Technical specification and a certification:

Pressure drop: max. 0.38 bar (at 7 bar (102 psi) reference and 20 ° C)
Water removal: 99.9999%
Filtration of impurities: 0.2 µm (90%); 1 µm (100%)
Working pressure: 1 to 16 bar
Operating temperature: 1 ° C to 55 ° C
Material: aluminum, stainless steel AISI 304 or AISI 316, ABS, inner material: ABS
Separation: water, impurities, oil, bacteria
Condensate drain: automatic (mechanical float)

ISO 12500-3 IUTA (particles):

2,0 µm 100%
1,0 µm 99%
0,2 µm 90%

Test parameter: Inlet pressure Air flow Flow direction Test aerosol Particle size range Aerosol Spectrometer		7 bar (e) [8 bar (a)] 48 Nm³/h = 100 % nominal flow rate from inside to outside DEHS (0.19 – 2.74) µm PCS 2100 (Palas GmbH)						
Test results:								
Particle-size range [µm]	lower upper	0.19 0.24	0.24 0.36	0.36 0.52	0.52 0.81	0.81 1.15	1.15 1.78	1.78 2.74
Average efficiency[2] [%]		**90.11**	**91.51**	**93.71**	**96.45**	**99**	**99.81**	**100**

ISO 12500-4 IUTA (voda):

99,9999% in range 1-16 bar

Test parameters					
Inlet pressure Air flow for testing Injected water per L/s air flow	7 bar (e) [8 bar (a)] 25%, 50%, 75%, 100%, 125% of rated flow (48 Nm³/h) 2 ml/min				
Test results	25%	50%	75%	100%	125%
Pressure drop [mbar] at each flow rate	22	83	184	334	520
Water-removal efficiency (%)	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.999%

ISO 8573-2 SGS (oil aerosol):
0,01 mg/m3 >91% (* SGS laboratory detection limit)

Sampling Point	Test Results	Detected Limit	Unit
01 Before filter	0.113	0.0100	mg/m³
02 After filter	N.D.	0.0100	mg/m³

Total HydroCarbon(THC) Removal Efficiency

Test Item	Removal Efficiency (%)
Total Aerosol oil	>91

SGS

Note: 1.The report will be in vain if it is used separately.
2."N.D."non-detected means the test results is lower than detection limit value.

The combination of AISI316 stainless steel separator material and the PERMA-CEMET 901.902 epoxy adhesive used is suitable for contact with foodstuffs according to 90/128 / EEC and Directive 97/48 / EEC (amendment 90/128 / EEC) and 2005/79 / EC .

ATEX II 2G II C T6 Gb: file 15FILE0037

ExVeritas

Staphylococcus aureus test: **99.998%**

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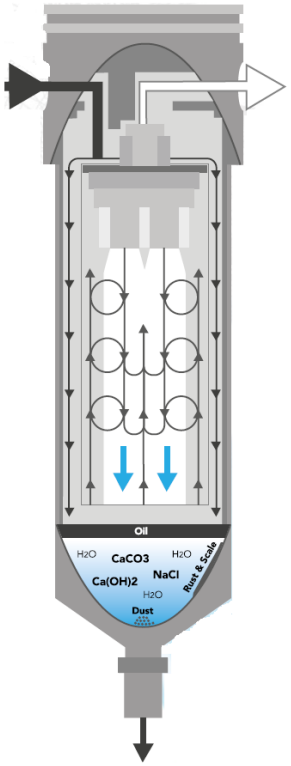
The flow rates indicated are 7 bar (102 psi) reference pressure and 20 ° C.
* Length with ball valve installed, manual condensate drain. Included.

Korekční faktor při jiném tlaku než referenčním (7 bar). *Correction factor for another pressure than the reference (7 bar).*															
Tlak v rozvodu *Line pressure*	1 bar *14,5 psi*	2 bar *29 psi*	3 bar *43,5 psi*	4 bar *58 psi*	5 bar *72,5 psi*	6 bar *87 psi*	7 bar *101,5 psi*	8 bar *116 psi*	9 bar *130,5 psi*	10 bar *145 psi*	11 bar *159,5 psi*	12 bar *174 psi*	13 bar *188,5 psi*	14 bar *203,1 psi*	15 bar *217,6 psi*
Korekční faktor *Correction factor*	0,53	0,63	0,73	0,79	0,89	0,94	1	1,09	1,17	1,25	1,33	1,4	1,48	1,56	1,64

The new flow rate is calculated = correction factor to the real pressure x flow at the reference pressure



Classification under Pressure Equipment Directive (PED) 2014/68 / EU for Group 2 fluids:

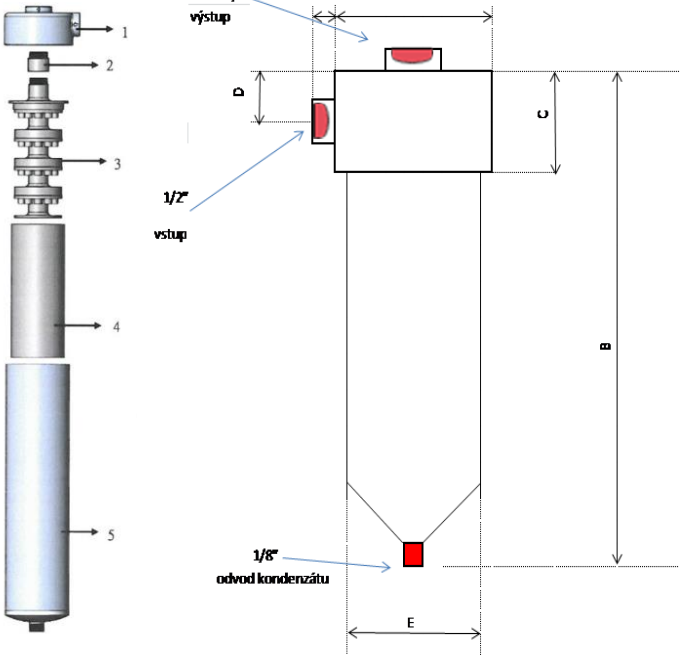
PED
PRESSURE EQUIPMENT

Product code Označení	Volume Objem	Category Kategorie	
	[L]	[16 bar]	[70 bar]
KA60	0,22	SEP	SEP
KA150	0,47	SEP	SEP
KA300	0,76	SEP	SEP
KA600	0,88	SEP	SEP
KA900	0,99	SEP	SEP
KA1500	2,49	SEP	---
KA2000	2,71	SEP	---
KA4000	2,92	SEP	---

KA separators with side inlet and top outlet. AV separator designation.

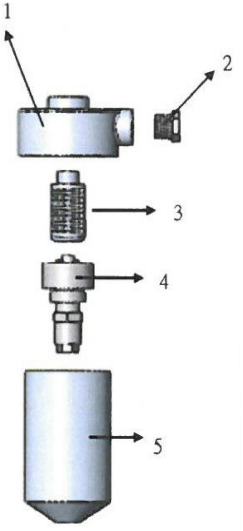
Product code Označení	Intlet/Outlet Vstup / Výstup	Drain Odtok výstup	Product dimension Rozměr výrobku (mm)					Weight Váha
	BSPT	BSPT	A	B	C	D	E	
KA300AV	1/2"	1/2"		261			60,5	0,64
KA600AV	3/4"	1/2"		301			60,5	0,68
KA900AV	3/4"	1/2"		341			60,5	0,74
KA2000AV	1"	1/2"		436			90	1,56
KA4000AV	1"	1/2"		506			90	1,76

1.	Head	Al
2.	Sleeve	AISI 304
3.	Insert	ABS
4.	COver	ABS
5.	Body	Al



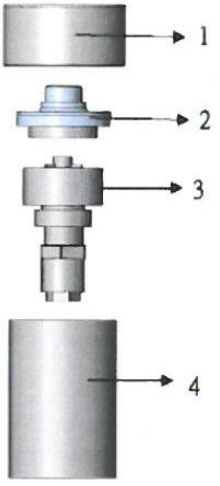
Autodrain KAAD128

1.	Head	AL
2.	Plug	Brass
3.	Filter	Plastic
4.	Float	Plastic
5.	Body	Al



Autodrain KAAD228

1.	Head	AISI 304
2.	Plug	AISI 304/ABS
3.	Filter	Plastic
4.	Float	Plastic
5.	Body	AISI 304



Portable TITAN

Označení *Product code*		Materiálové provedení *Product material*	Nominální průtok při 7 bar *Referenced flowrate at 7 bar*		Vstup / Výstup *Intlet/Outlet*	Rozměr výrobku *Product dimension*			Váha *Weight*
			[L/min]	[m3/hod]	BSPT	[mm] šířka *width*	[mm] výška *height*	[mm] hloubka *depth*	[kg]
PŘENOSNÉ *(portable)*	KA300T8	hlinik nebo nerez ocel (AISI304, AISI316) *aluminium or stainless steel (AISI304, AISI316)*	300	18	1/2"	320	520	235	9
	KA900T8/R	hlinik nebo nerez ocel (AISI304, AISI316) *aluminium or stainless steel (AISI304, AISI316)*	900	54	1/2"	320	520	235	10
	KA2000T8	hlinik nebo nerez ocel (AISI304, AISI316) *aluminium or stainless steel (AISI304, AISI316)*	2 000	120	1"	320	665	300	11
	KA4000T8	hlinik nebo nerez ocel (AISI304, AISI316) *aluminium or stainless steel (AISI304, AISI316)*	4 000	240	1"	320	765	300	12

Material of portable separator TITAN

Description of outer packaging

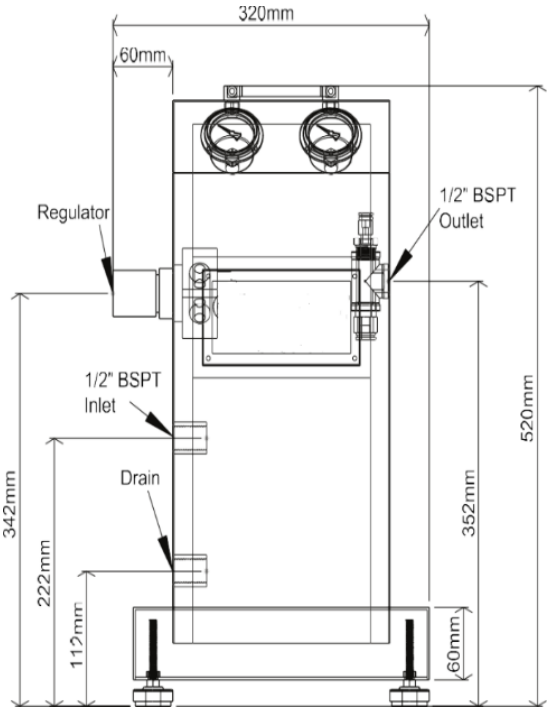
Description	**Material**
Outer box	sheet
Handless steel eyes	steel
Protective frame box	jekl

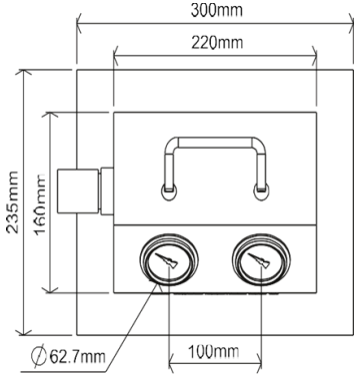
Description of interior equipment:

Description	**Material**
KA4000AV separator	Aluminium
Input	distributor pipe with nozzles, 304 stainless steel
Input pressure indicator	glycerine manometer
Outlet pressure indicator	glycerine manometer
Mounting connection	brass and stainless steel fittings
Mounting extension	stainless steel pipes
Mechanical closure	Ball valve - brass
Automatic condensate drain	KAAD128
Drain fixing screws	Nylon

KA900T8/R

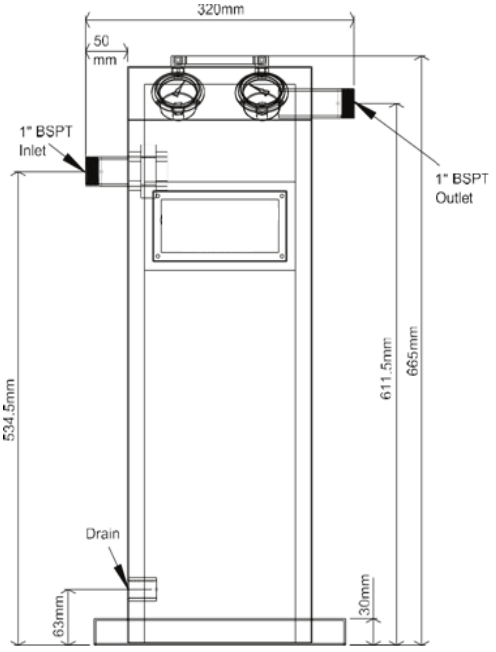
Number of separators	KA900AV	1
Number of autodrains	KAAD128	1

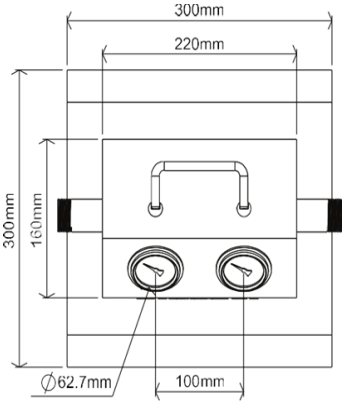




KA2000T8

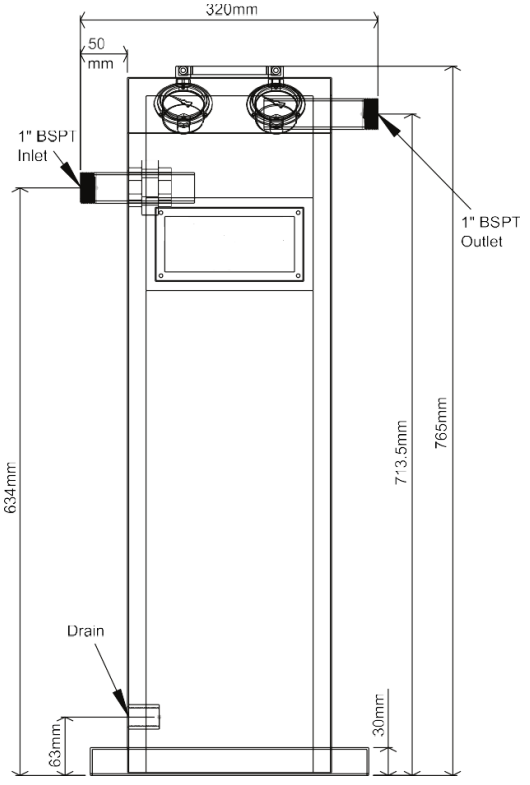
Number of separators	KA2000AV	1
Number of autodrains	KAAD128	1

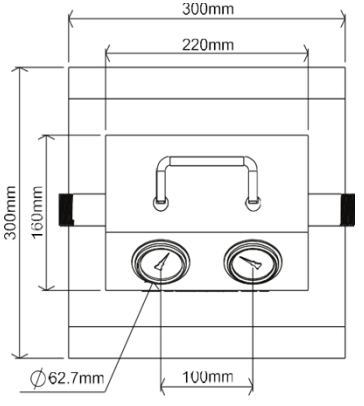




KA4000T8

Number of separators	KA4000AV	1
Number of autodrains	KAAD128	1





Stacionary TITAN

Označení *Product code*		Materiálové provedení *Product material*	Nominální průtok při 7 bar *Referenced flowrate at 7 bar*		Vstup / Výstup *Intlet/Outlet*	Rozměr výrobku *Product dimension*			Váha *Weight*
			[L/min]	[m3/hod]	BSPT	[mm] šířka *width*	[mm] výška *height*	[mm] hloubka *depth*	[kg]
STACIONÁRNÍ *(stationary)*	KA8000T8	**hliník nebo nerez ocel (AISI304, AISI316)** aluminium or stainless steel (AISI304, AISI316)	8 000	480	2"	380	1 000	445	27
	KA16000T8	**hliník nebo nerez ocel (AISI304, AISI316)** aluminium or stainless steel (AISI304, AISI316)	16 000	960	2"	490	1 450	610	79
	KA32000T8	**hliník nebo nerez ocel (AISI304, AISI316)** aluminium or stainless steel (AISI304, AISI316)	32 000	1 920	3"	490	1 450	1 130	131
	KA64000T8	**hliník nebo nerez ocel (AISI304, AISI316)** aluminium or stainless steel (AISI304, AISI316)	64 000	3 840	4" (10 bar) 3" (16 bar)	870	1 750	1 380	300

Material of stationary separator TITAN

Description of outer packaging:

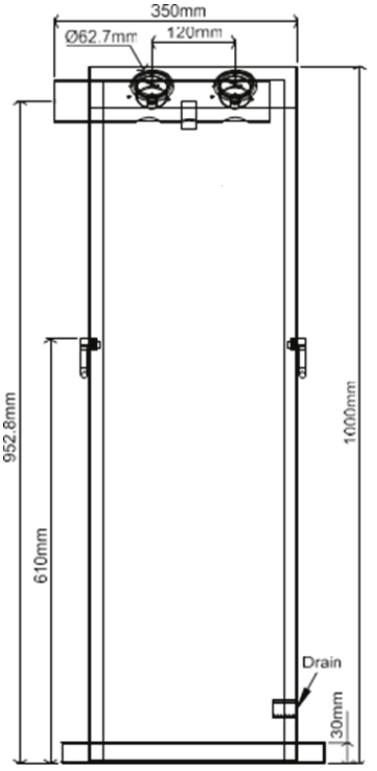
Description	**Material**
Outer box	Sheet metal
Handling handles	Steel mesh
Box protective frame	Jekl

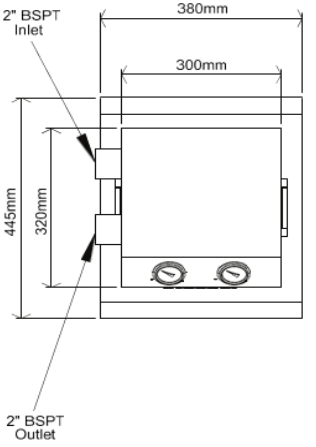
Description of interior equipment:

Description	**Material**
KA4000AV separator	Aluminium
Separator head	Zinc + aluminum alloy
Input	distributor pipe with nozzles, 304 stainless steel
Input pressure indicator	glycerine manometer
Outlet pressure indicator	glycerine manometer
Mounting connection	brass and stainless steel fittings
Mounting extension	stainless steel pipes
Mechanical closure	Ball valve - brass
Automatic condensate drain	KAAD128
Drain fixing screws	Nylon

TITAN KA8000T8

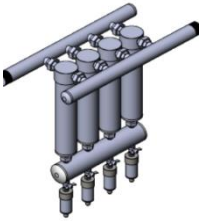
Number of separators	KA4000AV	2
Number of autodrains	KAAD128	2

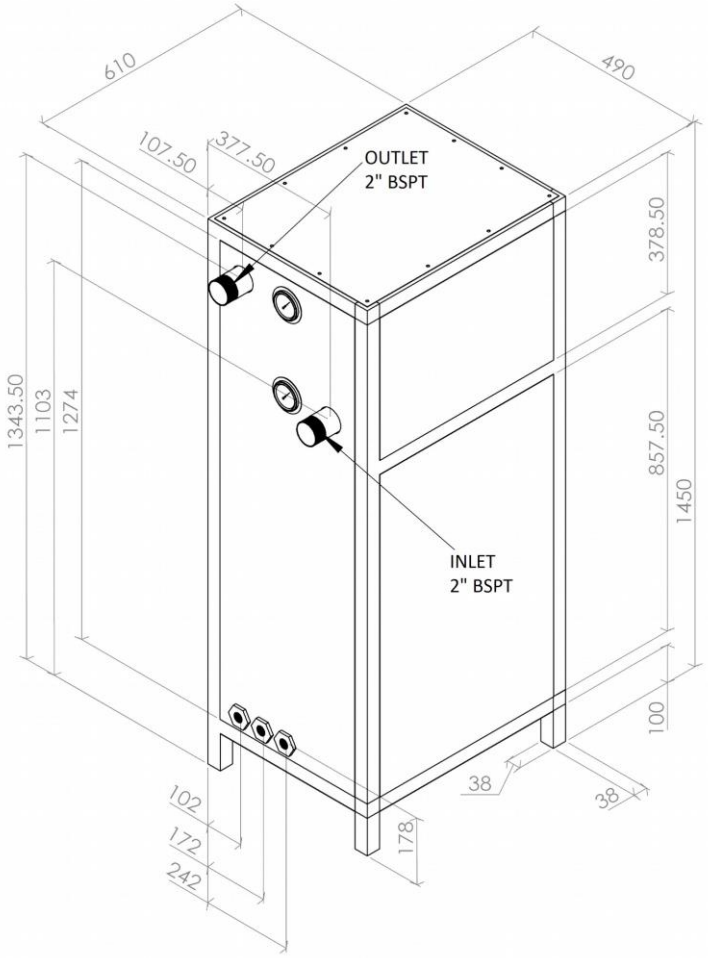




TITAN KA16000T8

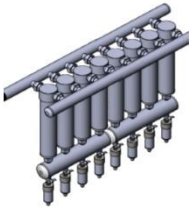
Number of separators	KA4000AV	4
Number of autodrains	KAAD128	4

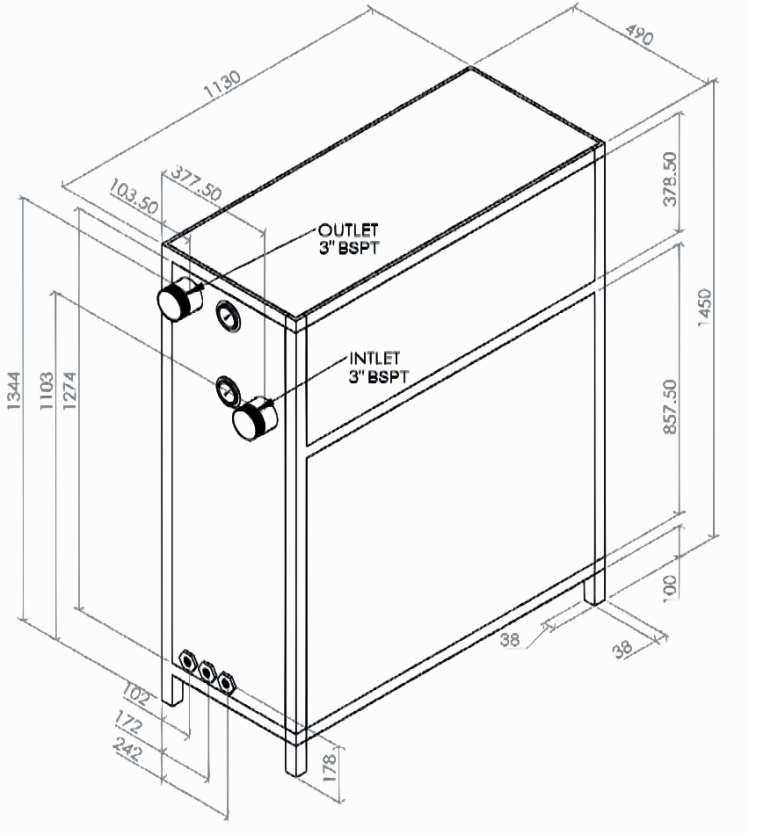




TITAN KA32000T8

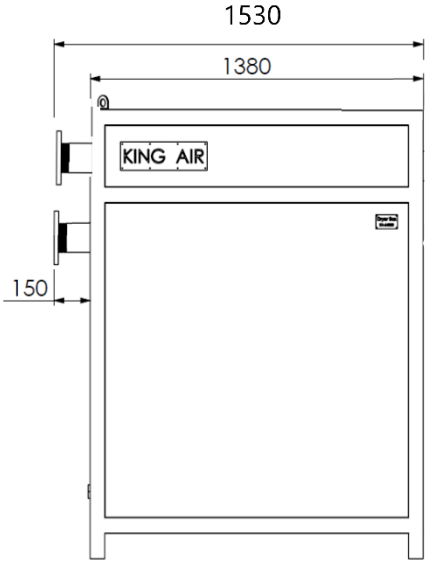
Number of separators	KA4000AV	8
Number of autodrains	KAAD128	8

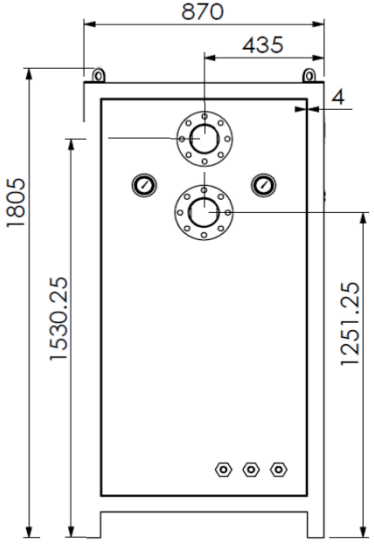


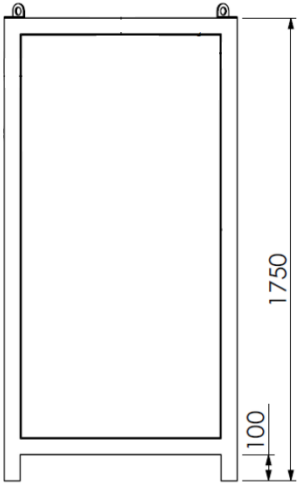


TITAN KA64000T8

Number of separators	KA4000AV	16
Number of autodrains	KAAD128	15

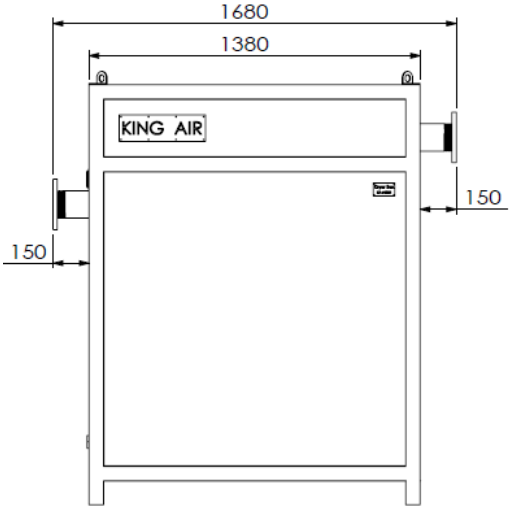




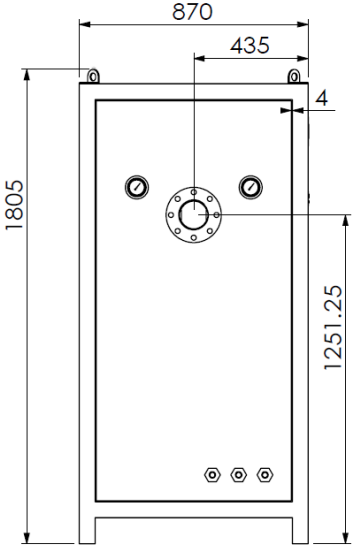


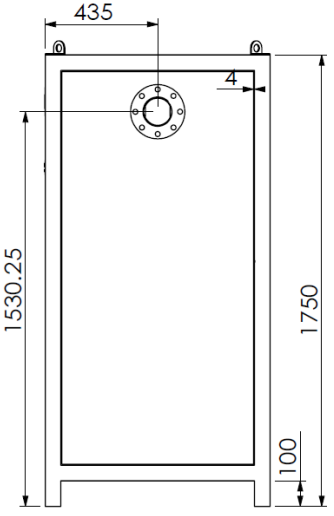
TITAN KA192000T8

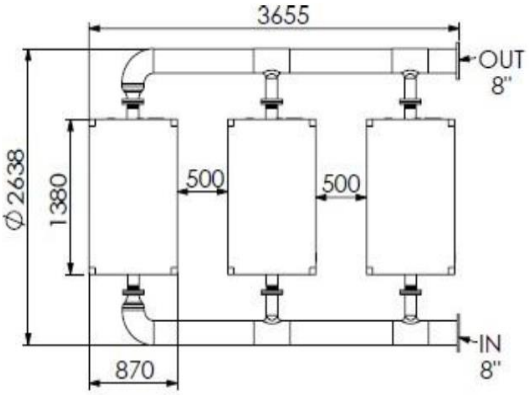
Number of separators	KA4000AV	3 x 16
Number of autodrains	KAAD128	3 x 15

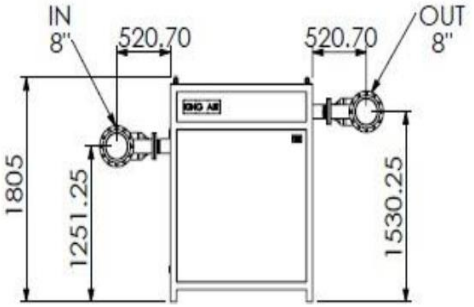


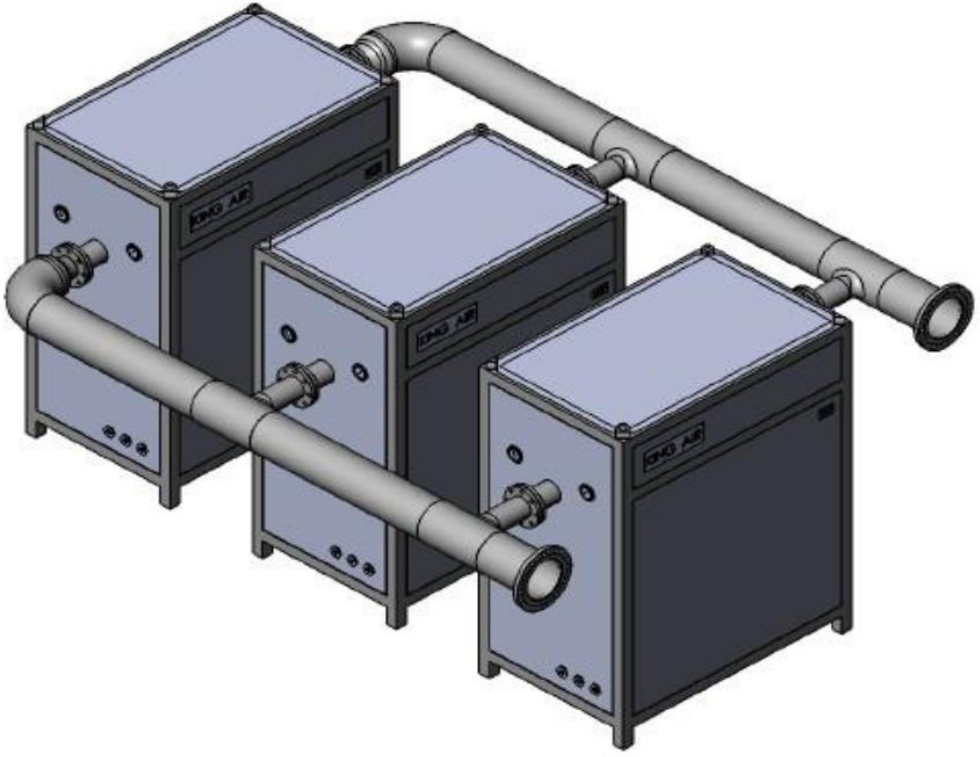
(photo TITAN 64000T8B base unit ports on the other side)






3655
OUT
8"
Ø2638
1380
500
500
IN
8"
870


IN
8"
520.70
520.70
OUT
8"
1805
1251.25
1530.25



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