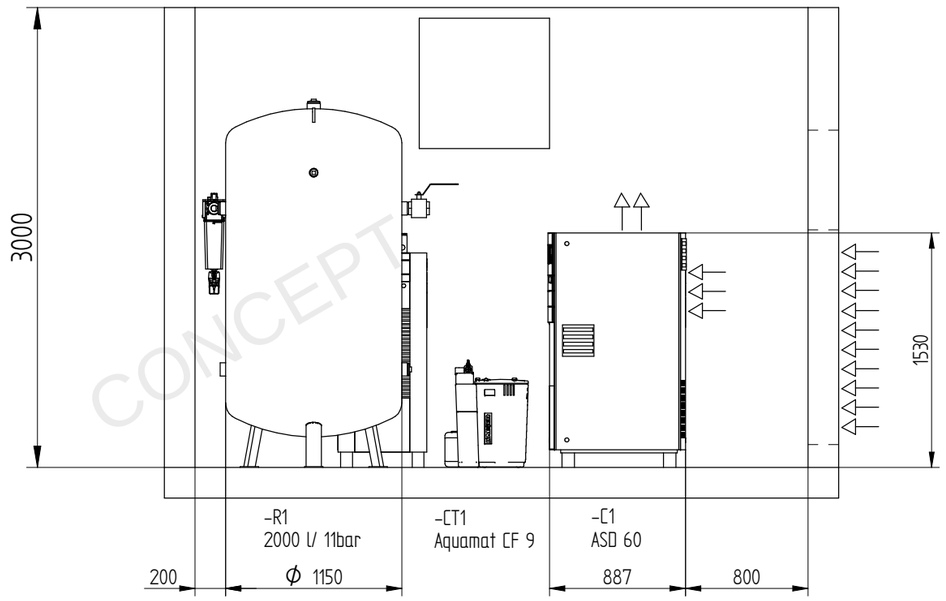
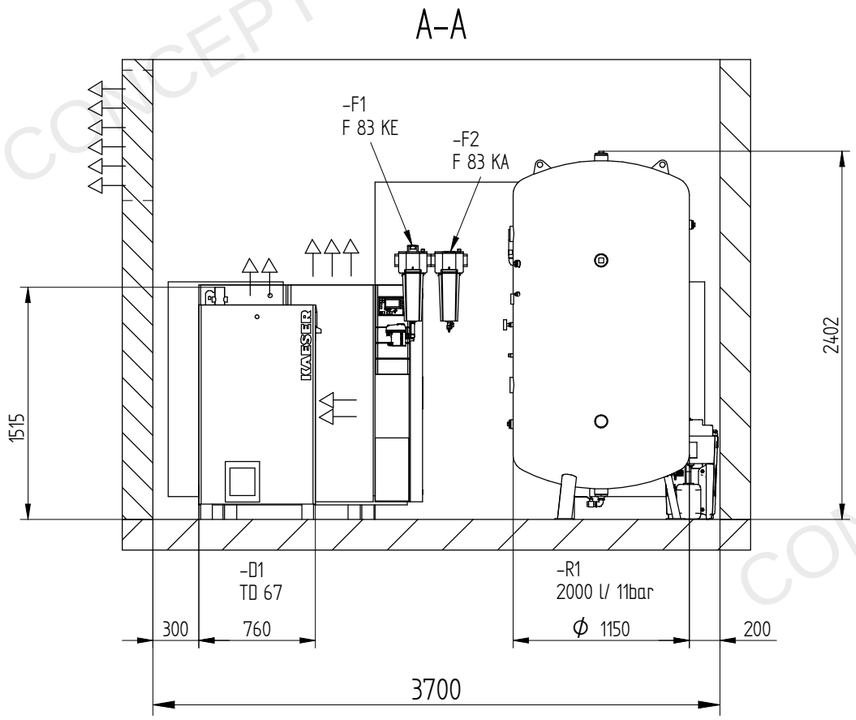
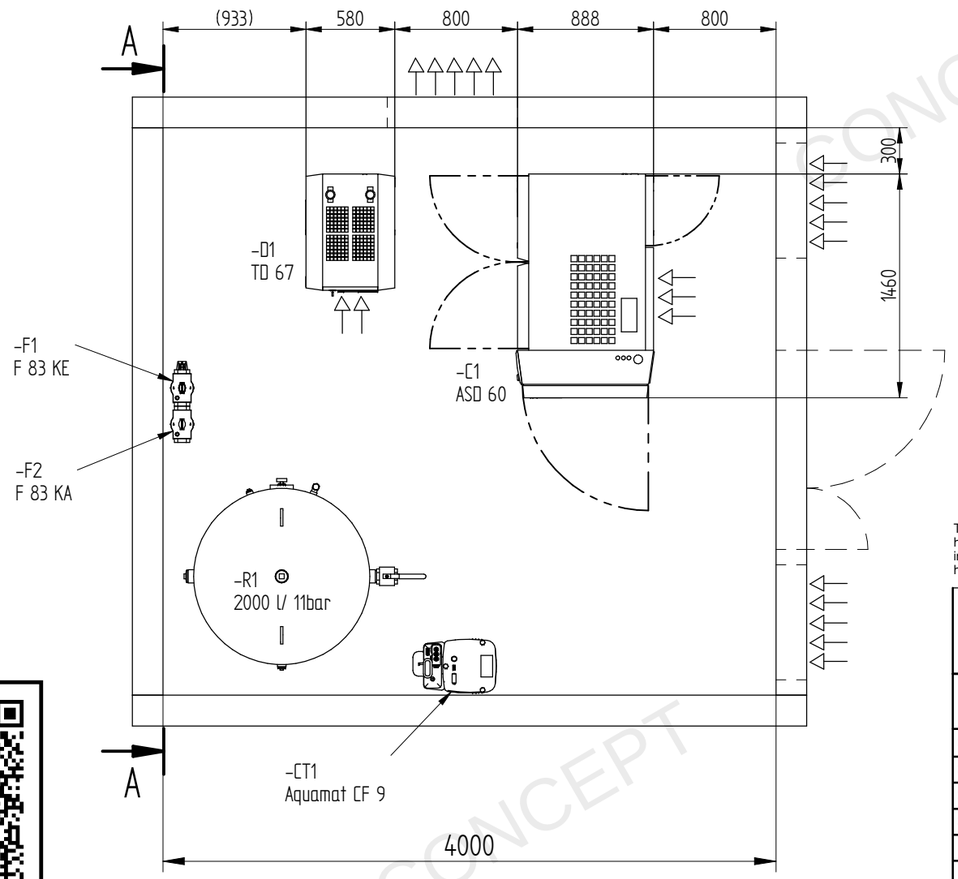






Design and installation of venting system and piping by specialized company.

The warmed up outgoing air must be led out through a conduit in a certain direction

Louvre for incoming air package/ thermostatically controlled

Louvre for incoming / outgoing air with weather protective lattice

Louvre for outgoing/ recirculation air thermostatically controlled

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

ATTENTION!
Minimum width of door = total width of component + 100 mm

This drawing also contains work to be done on site. The regulations of EN 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105 have to be observed; the requirements of existing operational safety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of installation. The national safety and accident prevention regulations have to be observed. The installation of a sub- assembly in terms of the pressure equipment directive 2014/68/EU has to be carried out according to this directive.

Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

Project No. 00138671			Station Setup ID 238194			Station ID 33598
Status CONCEPT						
04	Cooling data corrected	13.07.2023	hobusch		Date	Name
03	Daten Lüftung korrigiert	13.07.2023	hobusch	Drawing	13.07.2023	nahhas1
02	CAD frei gegeben	26.07.2022	hobusch	Review	13.07.2023	Hobusch
01	CAD released	19.07.2022	hobusch	Released	13.07.2023	Hobusch
				Template Rev. 2021/06		
		<RevD 6 DMY>				
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		

Musteraufstellungsskizze

mit Abluftventilator/ T max.: + 25 °C /

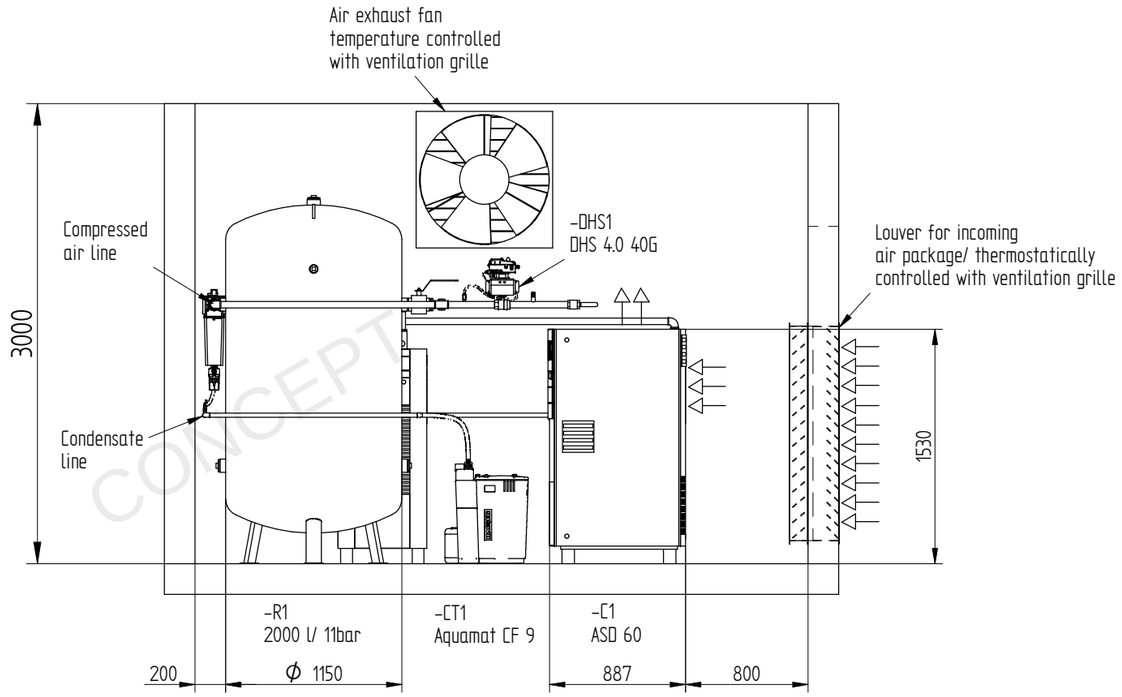
ölgekühlte Schraubenkompressor

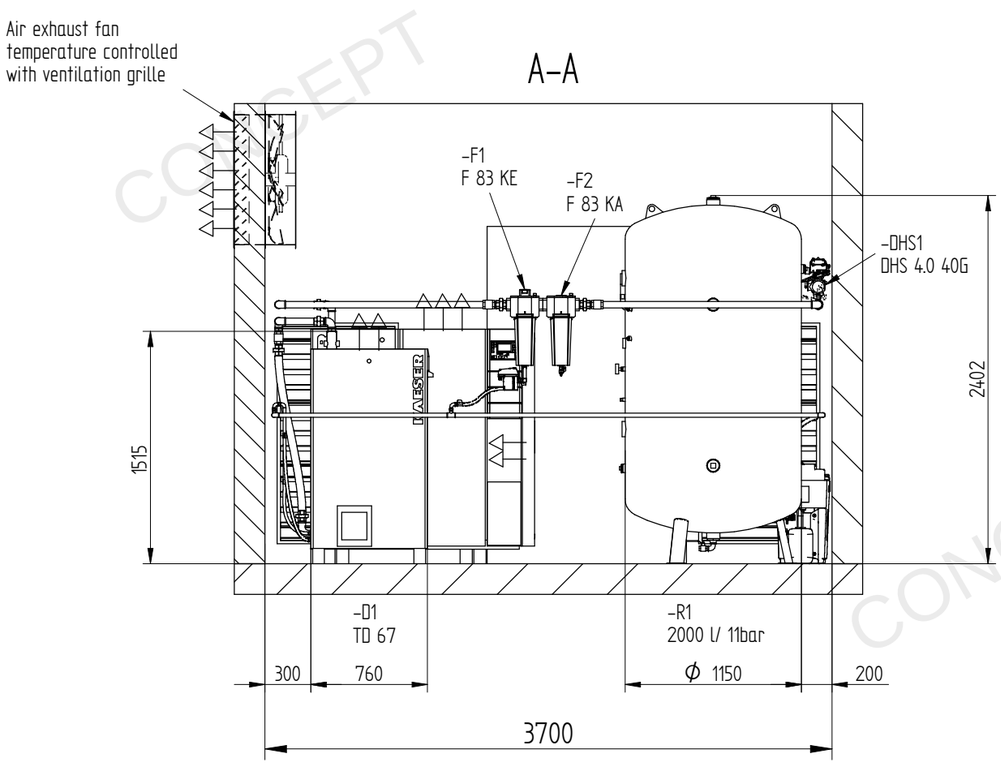
gezeichnet: 1x ASD 60, 1x TD 67, 1x F 83 KE/KA /

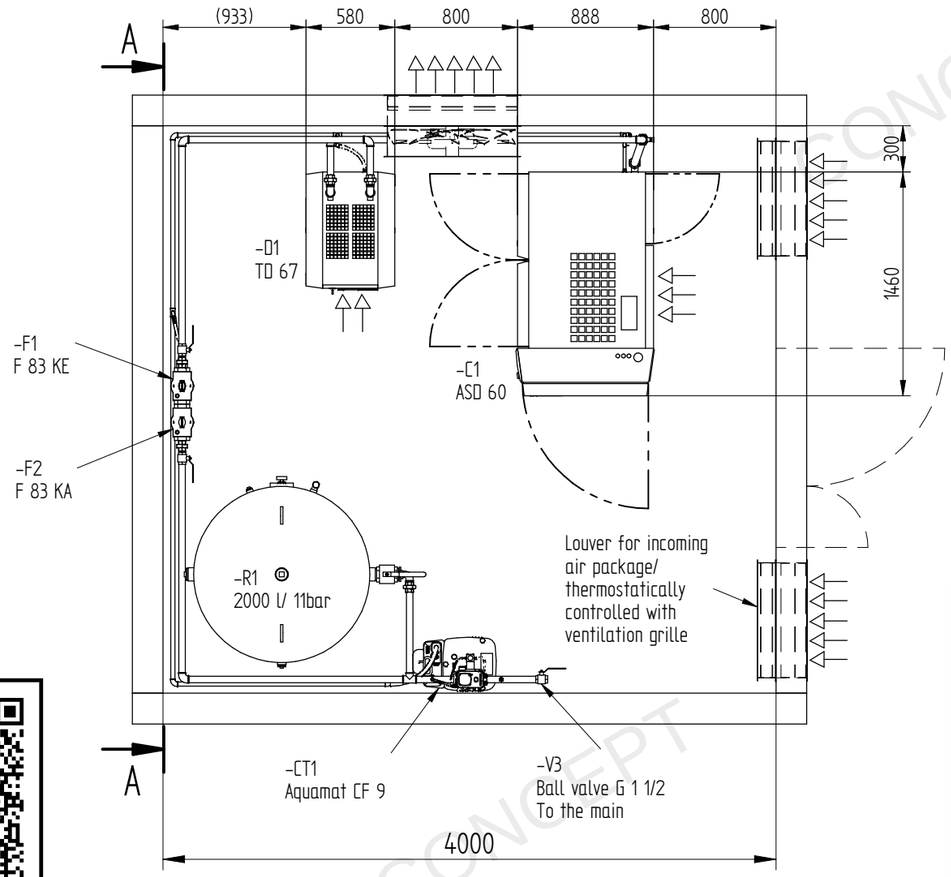
KAESER KOMPRESSOREN®

Sketch	Page 1 of 3	Paper size	DIN A3 / 1:40
P&I Diagram	PI	Description	Views without Piping and Ventilation
Sketch	C2		
Replaces		Replaced by	

Technical data see page 3







Design and installation of venting system and piping by specialized company.

The warmed up outgoing air must be led out through a conduit in a certain direction

Louvre for incoming air package/ thermostatically controlled

Louvre for incoming / outgoing air with weather protective lattice

Louvre for outgoing/ recirculation air thermostatically controlled

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

ATTENTION!
Minimum width of door = total width of component + 100 mm

This drawing also contains work to be done on site. The regulations of EN 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105 have to be observed; the requirements of existing operational safety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of installation. The national safety and accident prevention regulations have to be observed. The installation of a sub- assembly in terms of the pressure equipment directive 2014/68/EU has to be carried out according to this directive.

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Status CONCEPT						
04	Cooling data corrected	13.07.2023	hobusch		Date	Name
03	Daten Lüftung korrigiert	13.07.2023	hobusch	Drawing	13.07.2023	nahhas1
02	CAD frei gegeben	26.07.2022	hobusch	Review	13.07.2023	Hobusch
01	CAD released	19.07.2022	hobusch	Released	13.07.2023	Hobusch
				Template Rev. 2021/06		
		<RevD 6 DMY>				
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		Replaces

Musteraufstellungsskizze

mit Abluftventilator/ T max.: + 25 °C /

ölgekühlte Schraubenkompressor

gezeichnet: 1x ASD 60, 1x TD 67, 1x F 83 KE/KA /

KAESER KOMPRESSOREN®

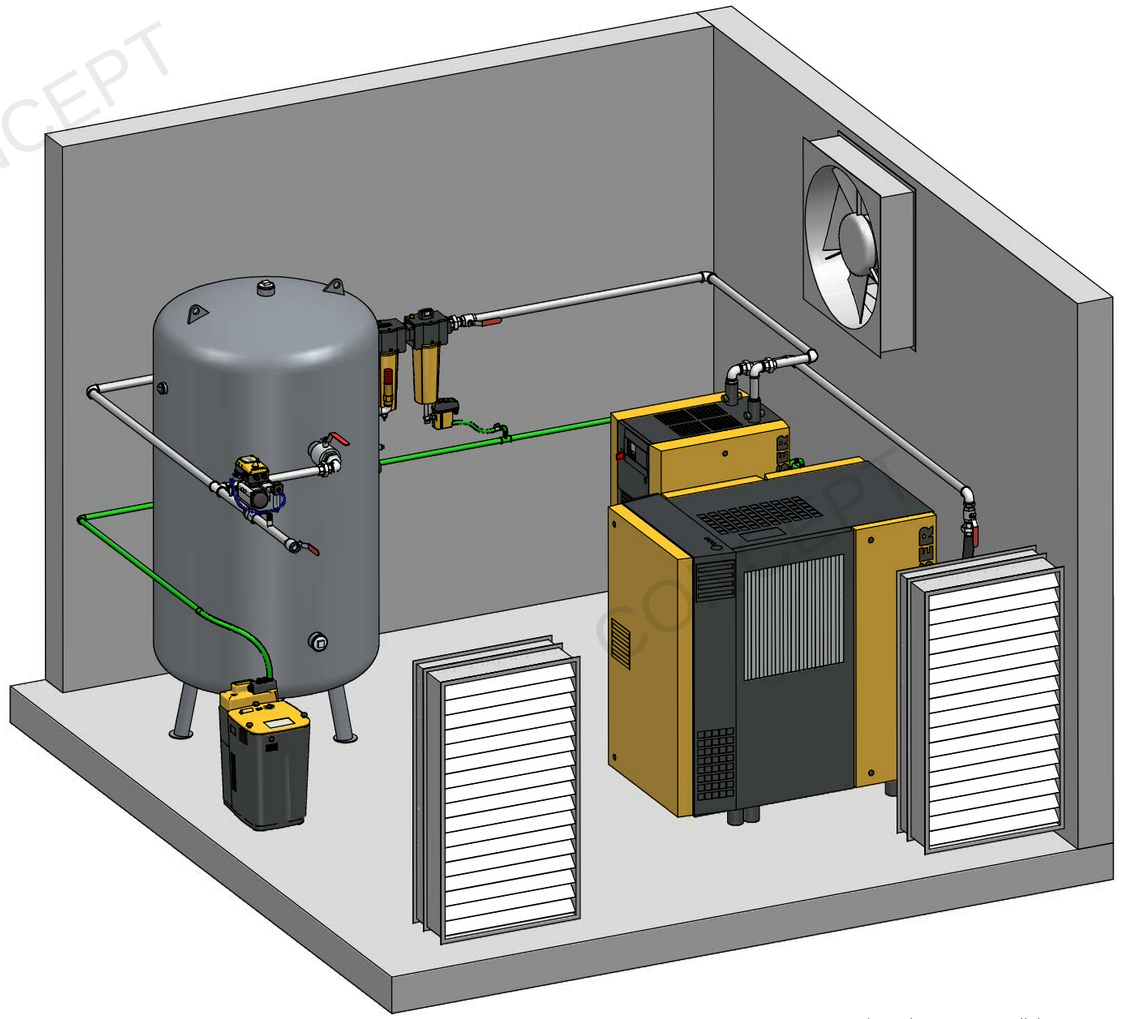
Sketch	Page 2 of 3	Paper size	DIN A3 / 1:40
P&I Diagram	PI	Description	Views with Piping and Ventilation
Sketch	C2		

Replaced by

Technical data see page 3

Compressor model	Working pressure [bar(g)]	Compressed air connection	Air entrance aperture free cross section per unit [m²]	Incoming air volume per unit [m³/h]	Refrigera-tion dryer model	Compressed air connection	Air entrance aperture (free cross section) per dryer [m²]	Incoming air volume per dryer [m³/h]	Exhaust air fan (thermostatically controlled) [m³/h]	Filter Extra	Com-pressed air con-nection	ECO-DRAIN a)	Filter Adsorption	Com-pressed air con-nection	Air receiver [l]	Compressed air connection	Air main charging system	Com-pressed air con-nection	Condensate treatment system AQUAMAT a)
ASD 35	8,5	G 1 1/4	0,9	7190	TC 36	G 1 1/4	0,2	2380	9400	F 46 KE	G 1 1/4	31 F	F 46 KA	G 1 1/4	1000	2 × G 1½; 2 × G 2	DHS 4.0 32G	G 1 1/4	CF 6
ASD 40	8,5	G 1 1/4	1,2	8230	TD 44	G 1 1/4	0,3	2380	10400	F 46 KE	G 1 1/4	31 F	F 46 KA	G 1 1/4	2000	G 2½	DHS 4.0 32G	G 1 1/4	CF 6
ASD 50	8,5	G 1 1/4	1,5	10270	TD 52	G 1 1/2	0,3	2500	12500	F 46 KE	G 1 1/2	31 F	F 46 KA	G 1 1/2	2000	G 2½	DHS 4.0 40G	G 1 1/2	CF 9
ASD 60	**8,5**	**G 1 1/4**	**1,7**	**12330**	**TD 67**	**G 1 1/2**	**0,4**	**2500**	**14500**	**F 83 KE**	**G 1 1/2**	**31 F**	**F 83 KA**	**G 1 1/2**	**2000**	**G 2½**	**DHS 4.0 40G**	**G 1 1/2**	**CF 9**

a) Climatic zone 2



ATTENTION!
Minimum width of door is total component width + 100 mm

Air receiver represents minimum recommended size

N 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105
nance and the manuals have to be considered by the operator and the employer respectively at the place of
installation. The national safety and accident prevention regulations have to be observed. The installation of a sub- assembly in terms of the pressure equipment directive 2014/68/EU has to be carried out according to this directive.

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

Project No.	00138671	Station Setup ID	238194		Station ID	33598
Status	CONCEPT					

04	Cooling data corrected	13.07.2023	hobusch		Date	Name
03	Daten Lüftung korrigiert	13.07.2023	hobusch	Drawing	13.07.2023	nahhas1
02	CAD frei gegeben	26.07.2022	hobusch	Review	13.07.2023	Hobusch
01	CAD released	19.07.2022	hobusch	Released	13.07.2023	Hobusch
				Template Rev.	2021/06	
		<RevD 6 DMY>				
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		

Musteraufstellungsskizze

mit Abluftventilator/ T max.: + 25 °C /

ölgekühlte Schraubenkompressor

gezeichnet: 1x ASD 60, 1x TD 67, 1x F 83 KE/KA /

Sketch	Page 3 of 3	Paper size	DIN A3 / 1:40
P&I Diagram	PI	Description	
Sketch	C2		
Replaces		Replaced by	

Location 1

Room temperature limitations by design

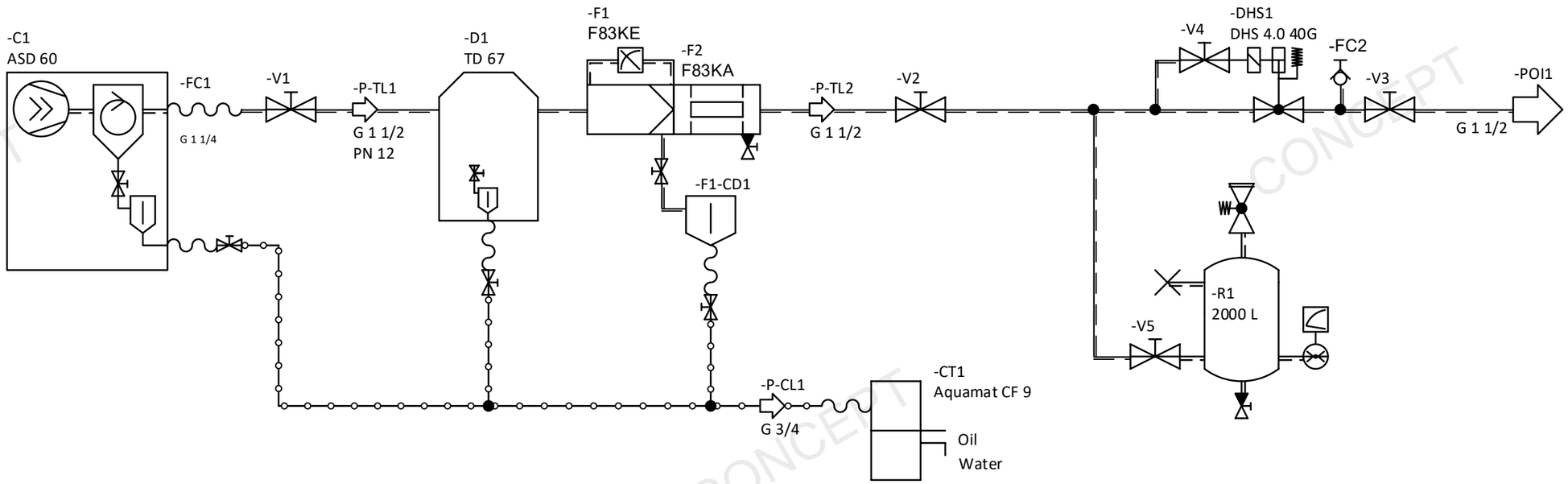
Min. 3 °C

Max. 25 °C

Piping key

Compressed air

Condensate



Compressed air quality class to ISO 8573-1: 2010 (Particle : Water : Oil) when the operational conditions and maintenance specifications are met

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

In wet areas of the compressed air main all connections have to be built as swan neck from above. Exception: a sidelong connection is possible, if the collective line is at least two pipe sizes larger than the connection. The main has to be installed with a descending gradient and a condensate drain has to be provided at the lowest point.

Documents released by engineering are identified by these characteristics in the title block

date of review/release

name of the reviewing/ releasing individual

Furthermore, any unreleased documents are identified by this designation: "Draft – for technical clarification only"

Other applicable documents are listed in "Documents overview"

All site work, including but not limited to, site preparation, construction, system component assembly and installation, must be completed in accordance with all relevant local, state and national codes and regulations, including but not limited to, building, electrical and occupational safety. End-users and all sub-contractors responsible for this work may be provided with product information to initiate these tasks, however this is not a substitution for reading and understanding the appropriate Product Manuals prior to installation of the equipment.

Since the compliance with the various federal, state and local laws and regulations concerning occupational health and safety and pollution are affected by the use, installation and operation of Equipment and other matters over which Kaeser has no control, Kaeser assumes no responsibility for compliance with those laws and regulations, whether by way of indemnity, warranty or otherwise.

Project number 00138671 Status CONCEPT			Station setup ID 238194 Concept 1			Station ID 33598
					Date	Name
				Drawing	12.07.2023	Nahhas1
				Check		Hobusch
				Approval	13.07.2023	Hobusch
01	CAD released	19.07.2022	hobusch			
02	CAD frei gegeben	26.07.2022	hobusch			
03	Daten Lüftung korrigiert	13.07.2023	hobusch			
04	Cooling data corrected	13.07.2023	hobusch			
Rev.	Change	Date	Name	Orig.		Replaces

Musteraufstellungsskizze
mit Abluftventilator/ T max.: + 25 °C /

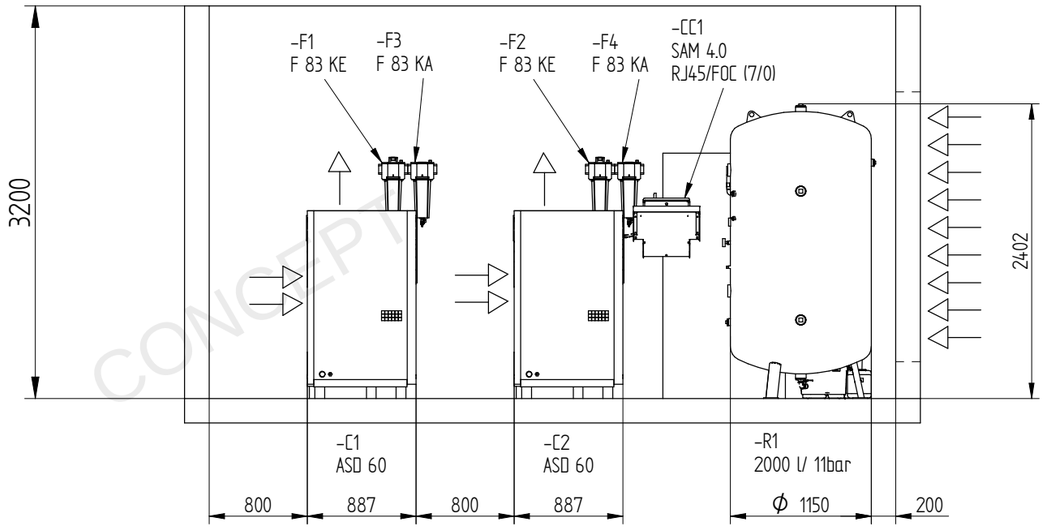
ölgekühlte Schraubenkompressor
gezeichnet: 1x ASD 60, 1x TD 67, 1x F 83 KE/KA /

KAESER KOMPRESSOREN®

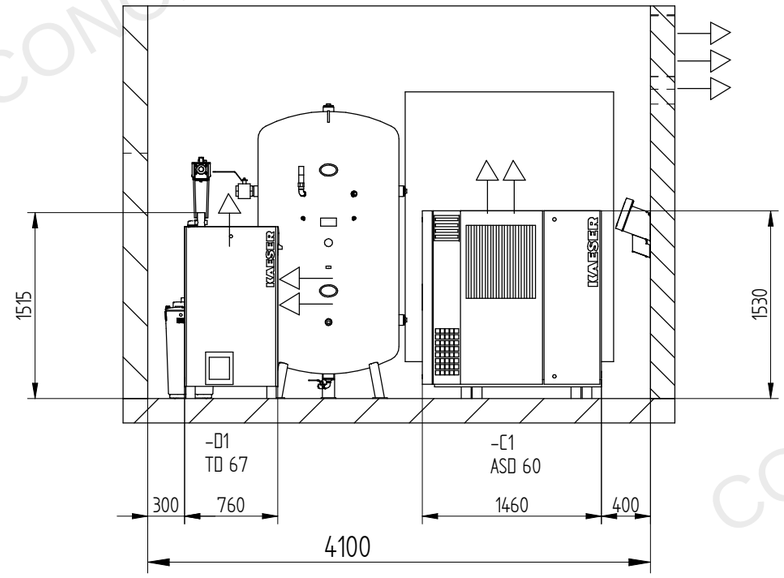
P&I diagram Sh. 1
P&I diagram

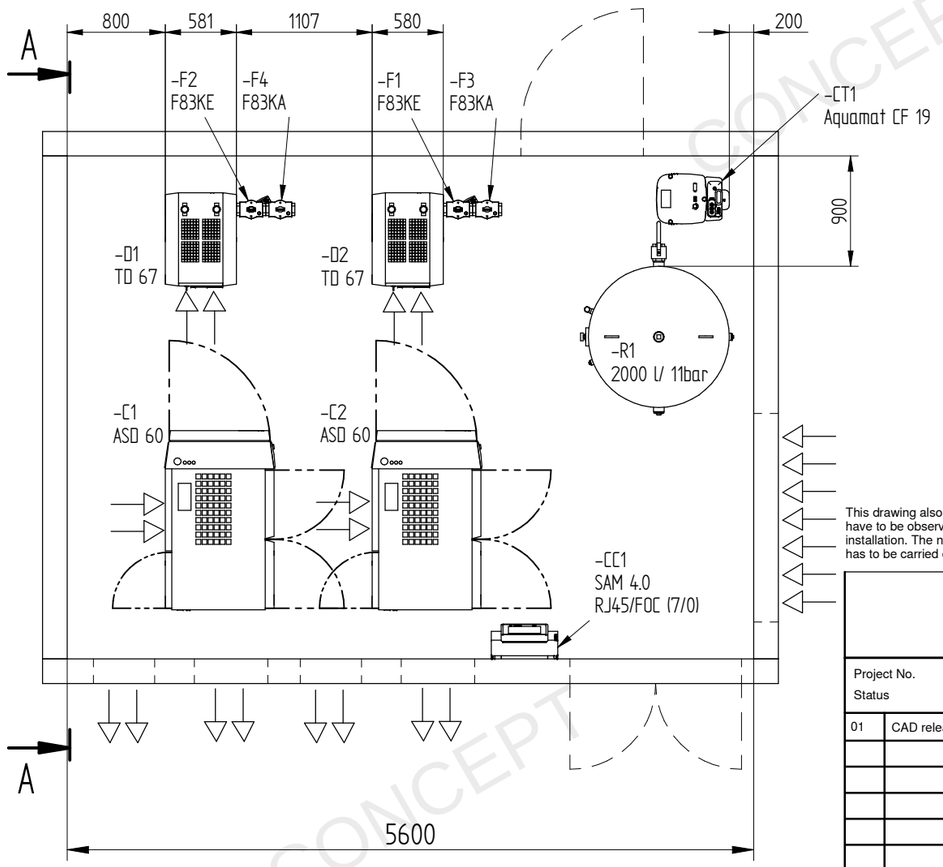
Sheet size DIN A3
297 x 420 mm

Replaced by



A–A





Design and installation of venting system and piping by specialized company.

The warmed up outgoing air must be led out through a conduit in a certain direction

Louvre for incoming air package/ thermostatically controlled

Louvre for incoming / outgoing air with weather protective lattice

Louvre for outgoing/ recirculation air thermostatically controlled

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This drawing also contains work to be done on site. The regulations of EN 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105 have to be observed; the requirements of existing operational safety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of installation. The national safety and accident prevention regulations have to be observed. The installation of a sub- assembly in terms of the pressure equipment directive 2014/68/EU has to be carried out according to this directive.

Technical data see page 3

Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

Project No.	00138672	Station Setup ID	203764			Station ID 33599
Status	CONCEPT					

Rev.	Modification	Date	Name		Date	Name
01	CAD released	20.07.2022	hobusch	Drawing	18.07.2022	nahhas1
				Review	18.07.2022	Hobusch
				Released	18.07.2022	Hobusch
				Template Rev.	2021/06	

KAESER KOMPRESSOREN®

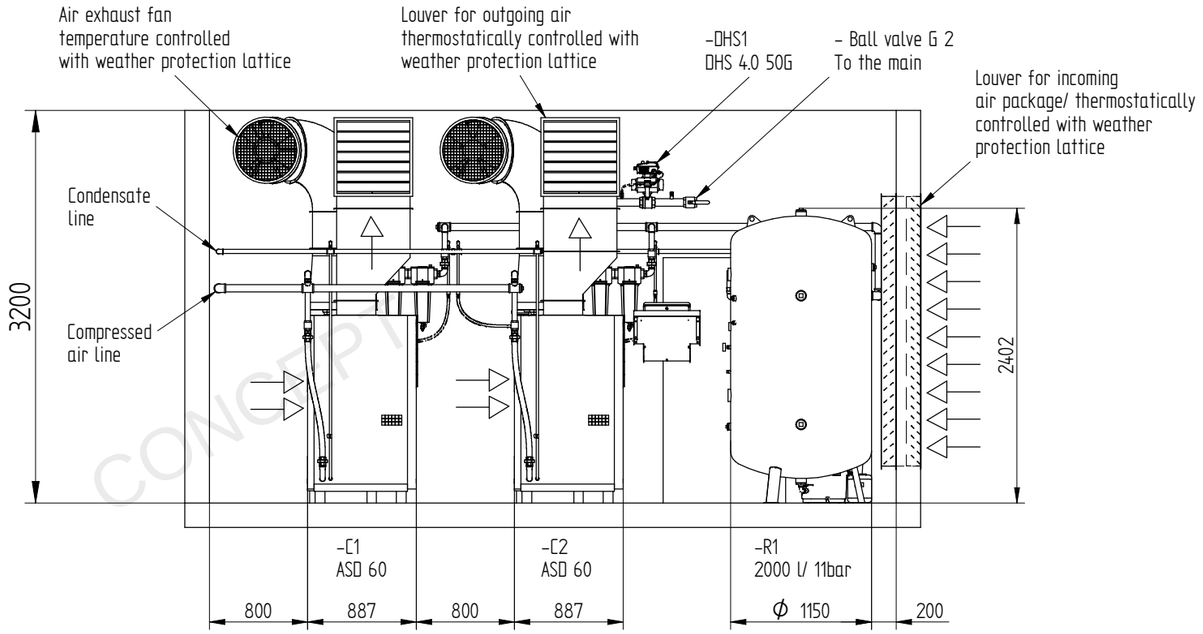
Sample planning sketch

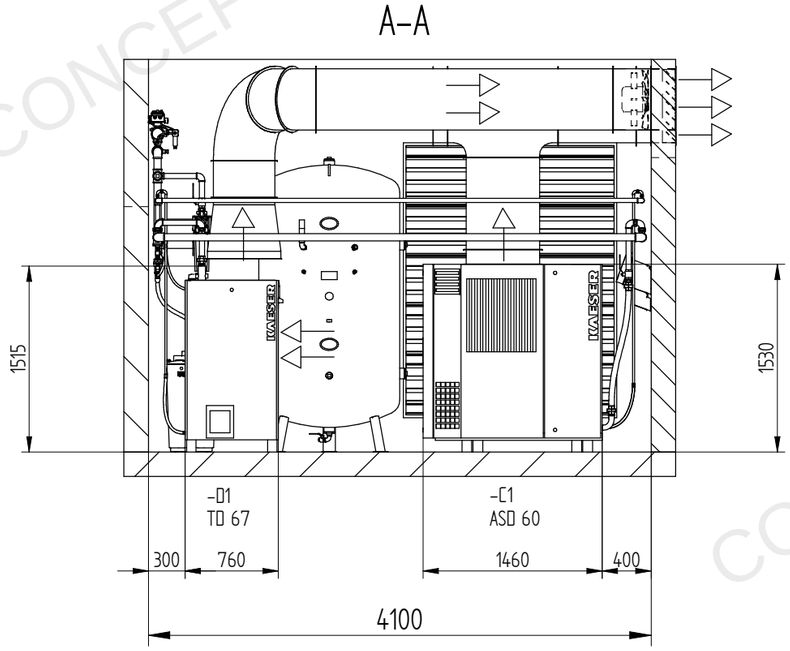
with exhaust air duct / T max.: + 25 °C /

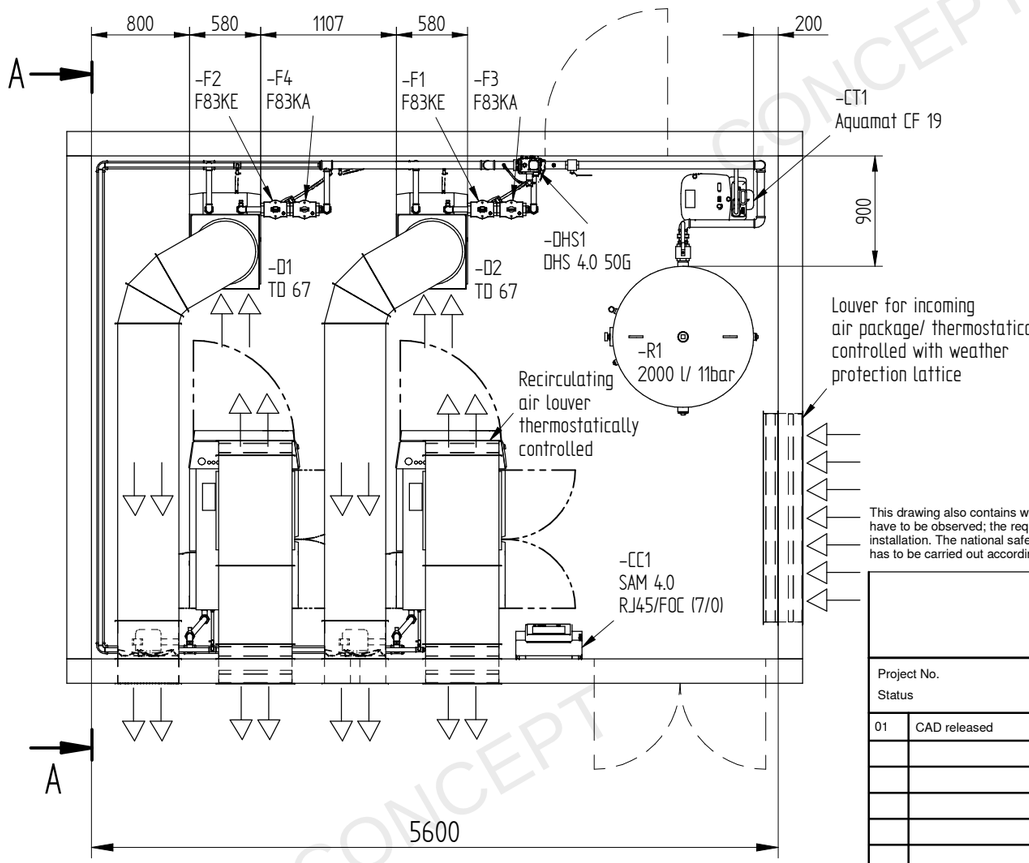
Oil injected screw compressor

shown: 2x ASD 60, 2x TD 67, 2x F 83 KE/KA /

Sketch	Page 1 of 3	Paper size	DIN A3 / 1:50
P&I Diagram	PI	Description	Views without Piping and Ventilation
Sketch	C2		
Original		Replaces	Replaced by







Design and installation of venting system and piping by specialized company.

The warmed up outgoing air must be led out through a conduit in a certain direction

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Technical data see page 3

Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

Project No.	00138672	Station Setup ID	203764			Station ID 33599
Status	CONCEPT					

Rev.	Modification	Date	Name		Date	Name
01	CAD released	20.07.2022	hobusch	Drawing	18.07.2022	nahhas1
				Review	18.07.2022	Hobusch
				Released	18.07.2022	Hobusch
				Template Rev.	2021/06	

Sample planning sketch
with exhaust air duct / T max.: + 25 °C /

Oil injected screw compressor
shown: 2x ASD 60, 2x TD 67, 2x F 83 KE/KA /

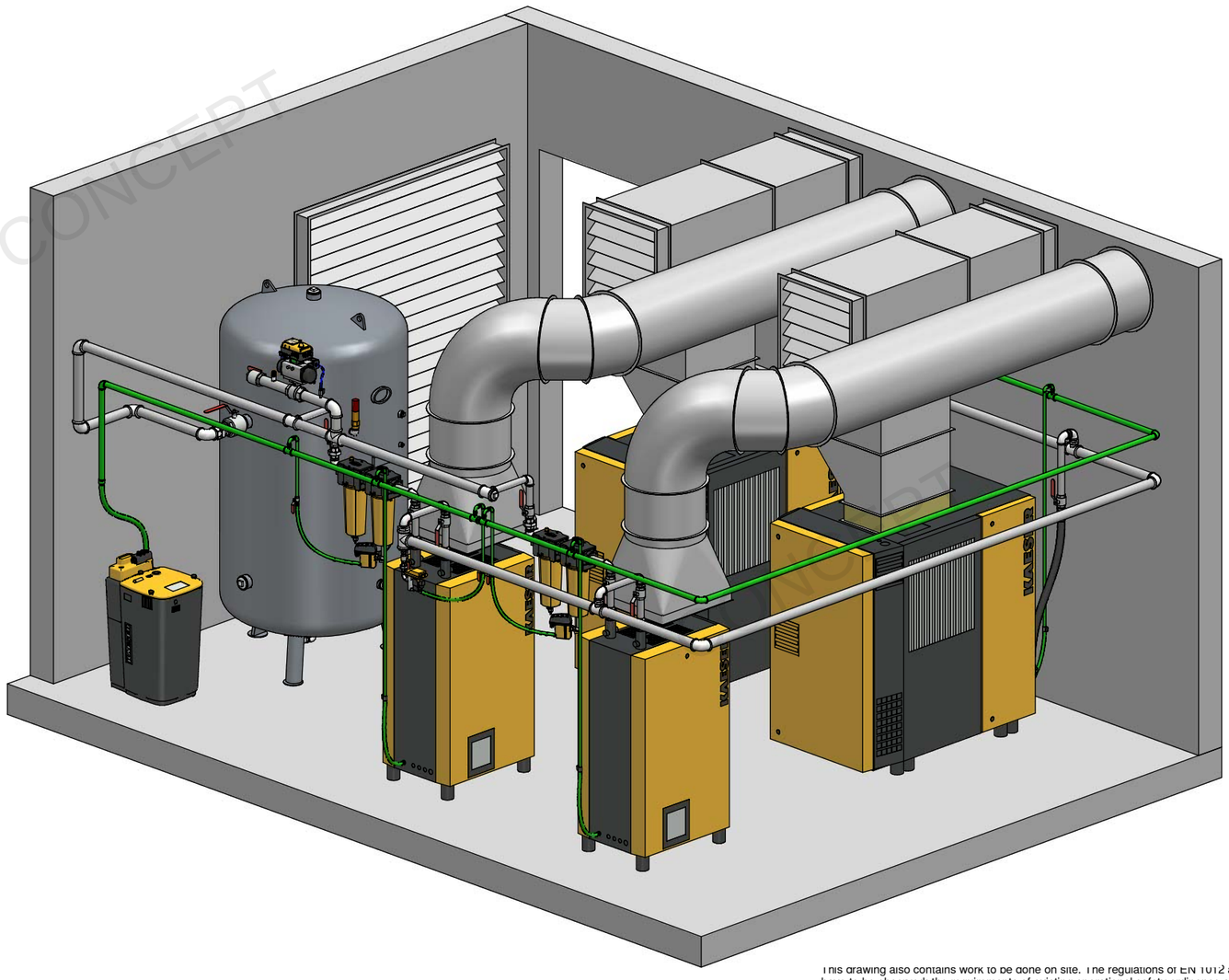
KAESER KOMPRESSOREN®

Sketch	Page 2 of 3	Paper size	DIN A3 / 1:50
P&I Diagram	PI	Description	Views with Piping and Ventilation
Sketch	C2		
Original		Replaces	Replaced by

Compressor model	Working pressure [bar(g)]	Compressed air connection	Air entrance aperture free cross section per unit [m²]	Incoming air volume per unit [m³/h]	Air exhaust duct dimensions (free cross section) per unit [m²]	Permissible overall pressure loss for exhaust duct per unit [Pa]	Compressed air collective line (two units)	Water trap ECO-DRAIN b)	Refrigeration dryer model a)	Compressed air connection	Air entrance aperture (free cross section) per unit [m²]	Incoming air volume per unit [m³/h]	Exhaust air fan (thermostatically controlled) [m³/h]	Filter Extra	Compressed air connection	ECO-DRAIN b)	Filter Adsorption	Compressed air connection	Air receiver [l]	Compressed air connection	Control	Air main charging system	Compressed air connection	Condensate treatment system AQUAMAT b)
ASD 35	8,5	G 1 1/4	0,5	3990	0,36	60	G 2	31	TC 36	G 1 1/4	0,2	2380	2380	F 46 KE	G 1 1/4	31 F	F 46 KA	G 1 1/4	1000	2 × G 1½; 2 × G 2	SAM 4.0	DHS 4.0 50G	G 2	CF 19
ASD 40	8,5	G 1 1/4	0,6	4030	0,36	60	G 2	31	TC 44	G 1 1/4	0,2	2380	2380	F 46 KE	G 1 1/2	31 F	F 46 KA	G 1 1/2	2000	G 2½	SAM 4.0	DHS 4.0 50G	G 2	CF 19
ASD 50	8,5	G 1 1/4	0,7	4770	0,36	60	G 2	31	TD 52	G 1 1/2	0,2	2500	2500	F 46 KE	G 1 1/2	31 F	F 46 KA	G 1 1/2	2000	G 2½	SAM 4.0	DHS 4.0 50G	G 2	CF 19
ASD 60	**8,5**	**G 1 1/4**	**0,8**	**5730**	**0,36**	**40**	**G 2**	**31**	**TD 67**	**G 1 1/2**	**0,2**	**2500**	**2500**	**F 83 KE**	**G 2**	**31 F**	**F 83 KA**	**G 2**	**2000**	**G 2½**	**SAM 4.0**	**DHS 4.0 50G**	**G 2**	**CF 19**

a) Designed for reference terms DIN ISO 7183 Option A

b) Climatic zone 2



Air receiver represents minimum recommended size

ATTENTION!
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Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

Project No.	00138672	Station Setup ID	203764			Station ID	33599
Status	CONCEPT						

Rev.	Modification	Date	Name		Date	Name
01	CAD released	20.07.2022	hobusch	Drawing	18.07.2022	nahhas1
				Review	18.07.2022	Hobusch
				Released	18.07.2022	Hobusch
				Template Rev.	2021/06	

Original

Sample planning sketch

with exhaust air duct / T max.: + 25 °C /

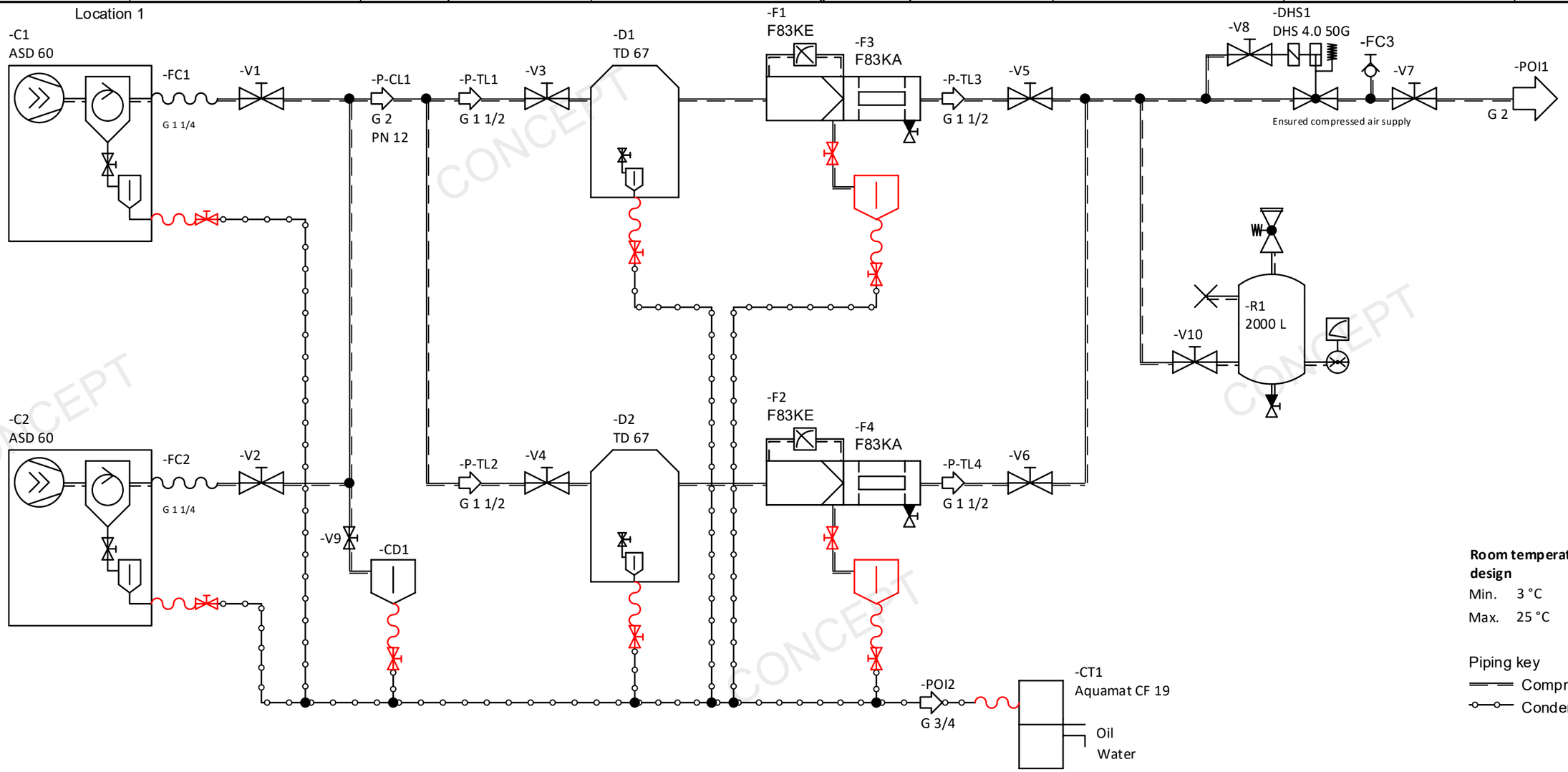
Oil injected screw compressor

shown: 2x ASD 60, 2x TD 67, 2x F 83 KE/KA /

Sketch	Page 3 of 3	Paper size	DIN A3 / 1:50
P&I Diagram	PI	Description	
Sketch	C2		

Replaces

Replaced by



Room temperature limitations by design

Min. 3 °C

Max. 25 °C

Piping key

Compressed air

Condensate

Documents released by engineering are identified by these characteristics in the title block

date of review/release

name of the reviewing/ releasing individual

Furthermore, any unreleased documents are identified by this designation: "Draft – for technical clarification only"

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Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

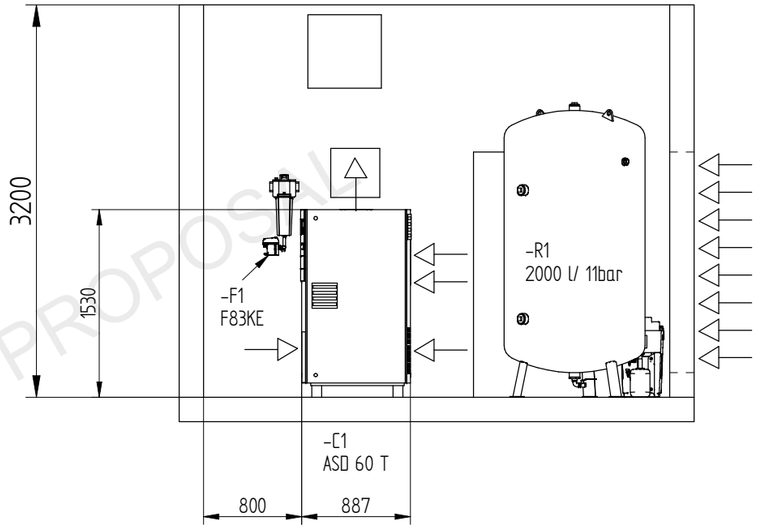
Compressed air quality class to ISO 8573-1: 2010 (Particle : Water : Oil) when the operational conditions and maintenance specifications are met

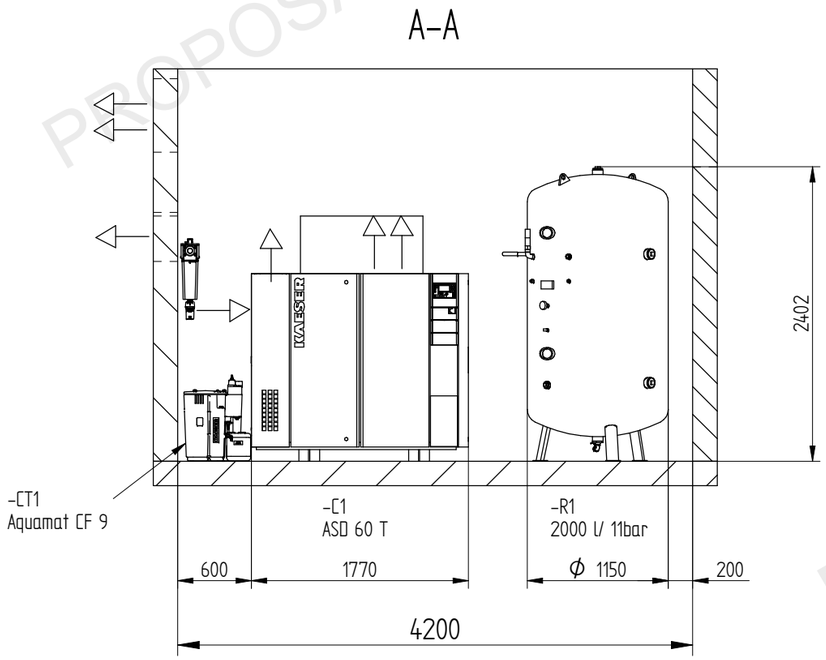
In wet areas of the compressed air main all connections have to be built as swan neck from above. Exception: a sidelong connection is possible, if the collective line is at least two pipe sizes larger than the connection. The main has to be installed with a descending gradient and a condensate drain has to be provided at the lowest point.

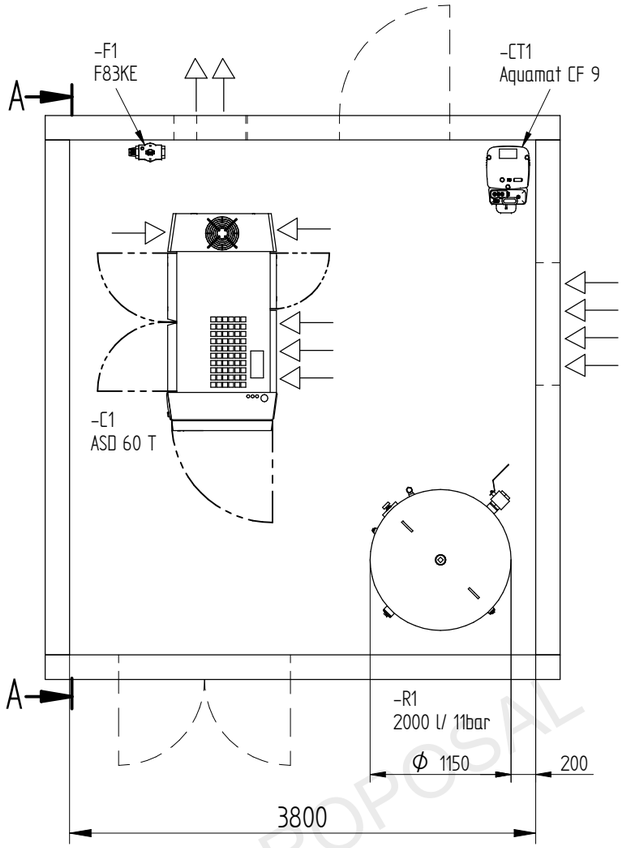
Project number 00138672 Status CONCEPT			Station setup ID 203764 Concept 1			Station ID 33599
					Date	Name
				Drawing	18.07.2022	Nahhas1
				Check		hobusch
				Approval	19.07.2022	hobusch
01	CAD released	20.07.2022	hobusch	KAESER KOMPRESSOREN		Sample planning sketch with exhaust air duct / T max.: + 25 °C / Oil injected screw compressor shown: 2x ASD 60, 2x TD 67, 2x F 83 KE/KA /
Rev.	Change	Date	Name	Orig.		P&I diagram Sh. 1 P&I diagram Sheet size DIN A3 297 x 420 mm Replaces Replaced by

Views without Piping and Ventilation

Design limits for ambient temperature
min.: + 3° C
max.: + 30° C







At ambient temperatures higher than 25 °C, the compressed air quality can result in class 5 – 7 regarding humidity content acc. to ISO 8573-1.

Design and installation of venting system and piping by specialized company.

The warmed up outgoing air must be led out through a conduit in a certain direction

Louvre for incoming air package/ thermostatically controlled

Louvre for incoming / outgoing air with weather protective lattice

Louvre for outgoing/ recirculation air thermostatically controlled

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

ATTENTION!
Minimum width of door = total width of component + 100 mm

This drawing also contains work to be done on site. The regulations of EN 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105 have to be observed; the requirements of existing operational safety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of installation. The national safety and accident prevention regulations have to be observed. The installation of a sub- assembly in terms of the pressure equipment directive 2014/68/EU has to be carried out according to this directive.

Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

Project No. 00132841 Status PROPOSAL			Station Setup ID 198341			Station ID 28896
03	CAD released	23.03.2022	hobusch		Date	Name
02	CAD created	22.03.2022	teubl	Drawing	21.03.2022	nahhas1
1	Project created	15.06.2021	teubl	Review	21.03.2022	
0		31.05.2016		Released	21.03.2022	
				Template Rev. 2021/06		
Rev.	Modification	Date	Name	Original		Replaces / Replaced by

Sample planning sketch
with exhaust air duct /

Oil injected screw compressor
shown: 1x ASD 60 T, 1x F 83 Ke /

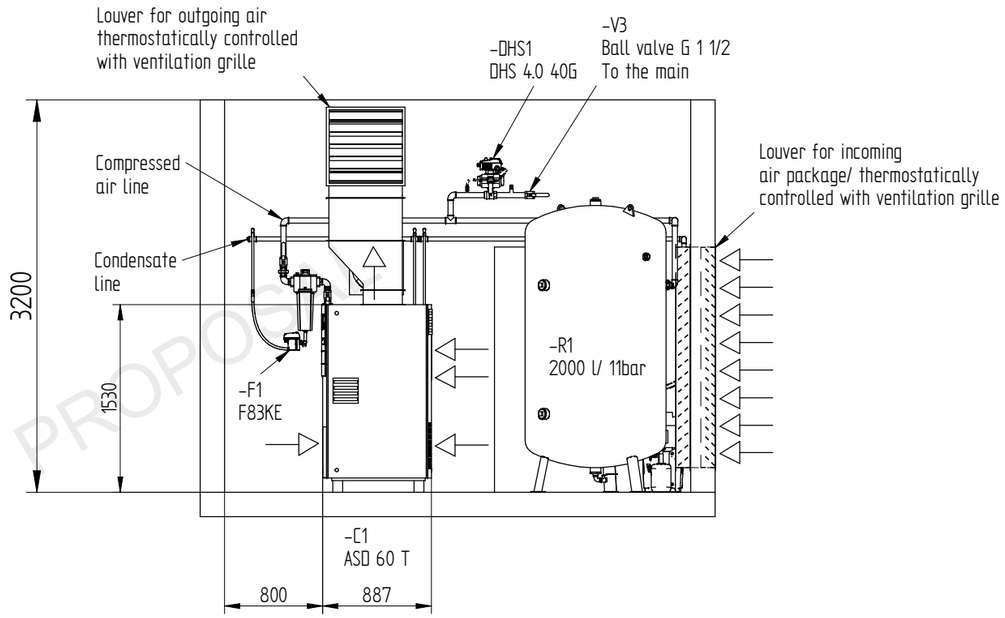
KAESER KOMPRESSOREN

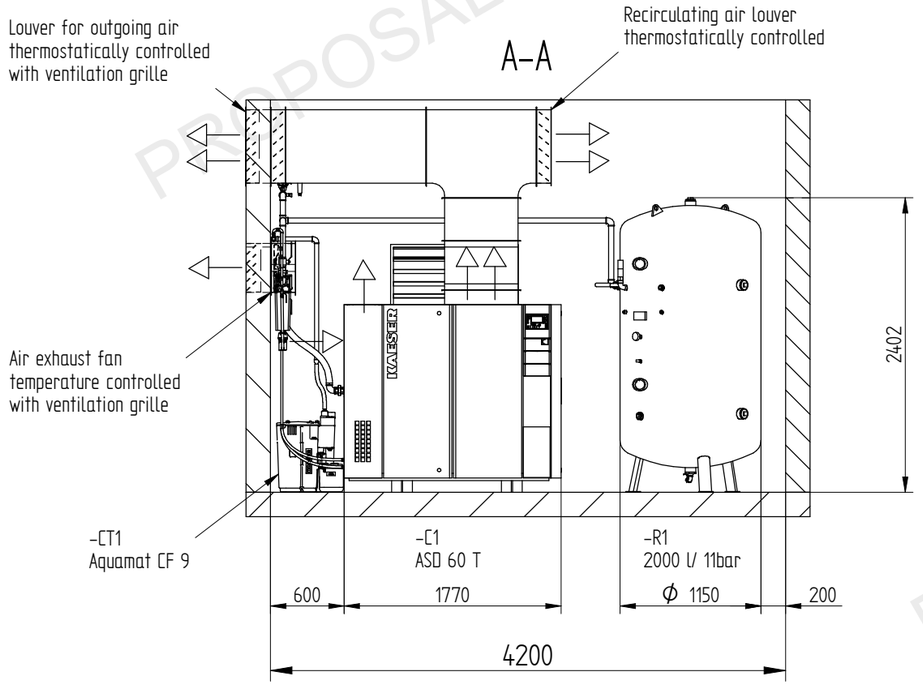
Sketch	Page 1 of 3	Paper size	DIN A3 / 1:50
P&I Diagram	PI	Description	
Sketch	C2		

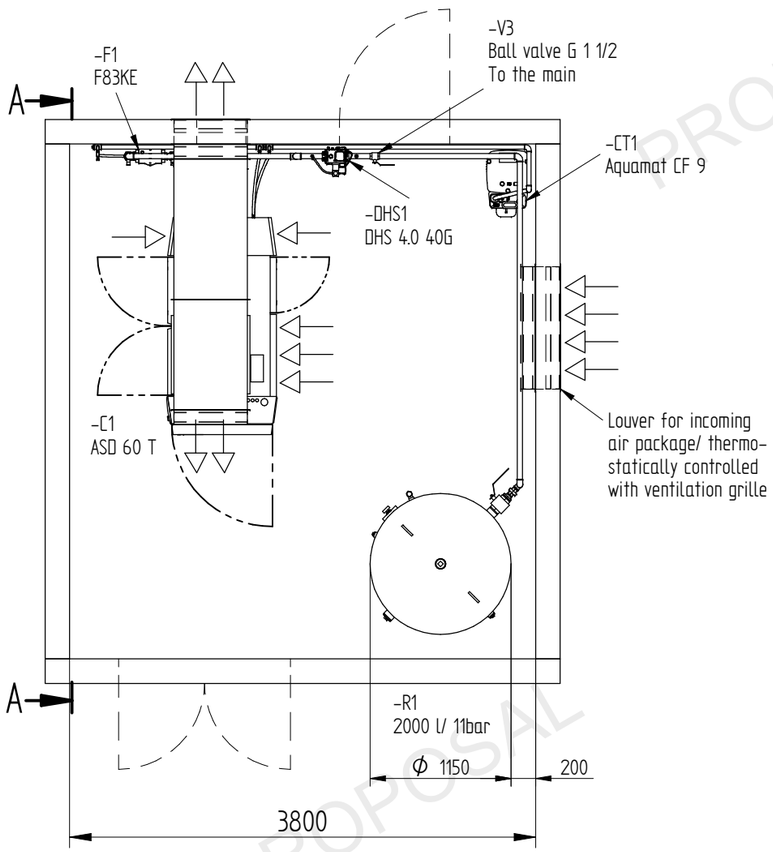
Technical data see page 3

Views with Piping and Ventilation

Design limits for ambient temperature
min.: + 3° C
max.: + 30° C







At ambient temperatures higher than 25 °C, the compressed air quality can result in class 5 – 7 regarding humidity content acc. to ISO 8573-1.

Design and installation of venting system and piping by specialized company.

The warmed up outgoing air must be led out through a conduit in a certain direction

Louvre for incoming air package/ thermostatically controlled

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Louvre for outgoing/ recirculation air thermostatically controlled

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

ATTENTION!
Minimum width of door = total width of component + 100 mm

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Project No. 00132841			Station Setup ID 198341			Station ID 28896
Status PROPOSAL						
03	CAD released	23.03.2022	hobusch		Date	Name
02	CAD created	22.03.2022	teubl	Drawing	21.03.2022	nahhas1
1	Project created	15.06.2021	teubl	Review	21.03.2022	
0		31.05.2016		Released	21.03.2022	
				Template Rev. 2021/06		
Rev.	Modification	Date	Name	Original		Replaces

Sample planning sketch
with exhaust air duct /

Oil injected screw compressor
shown: 1x ASD 60 T, 1x F 83 Ke /

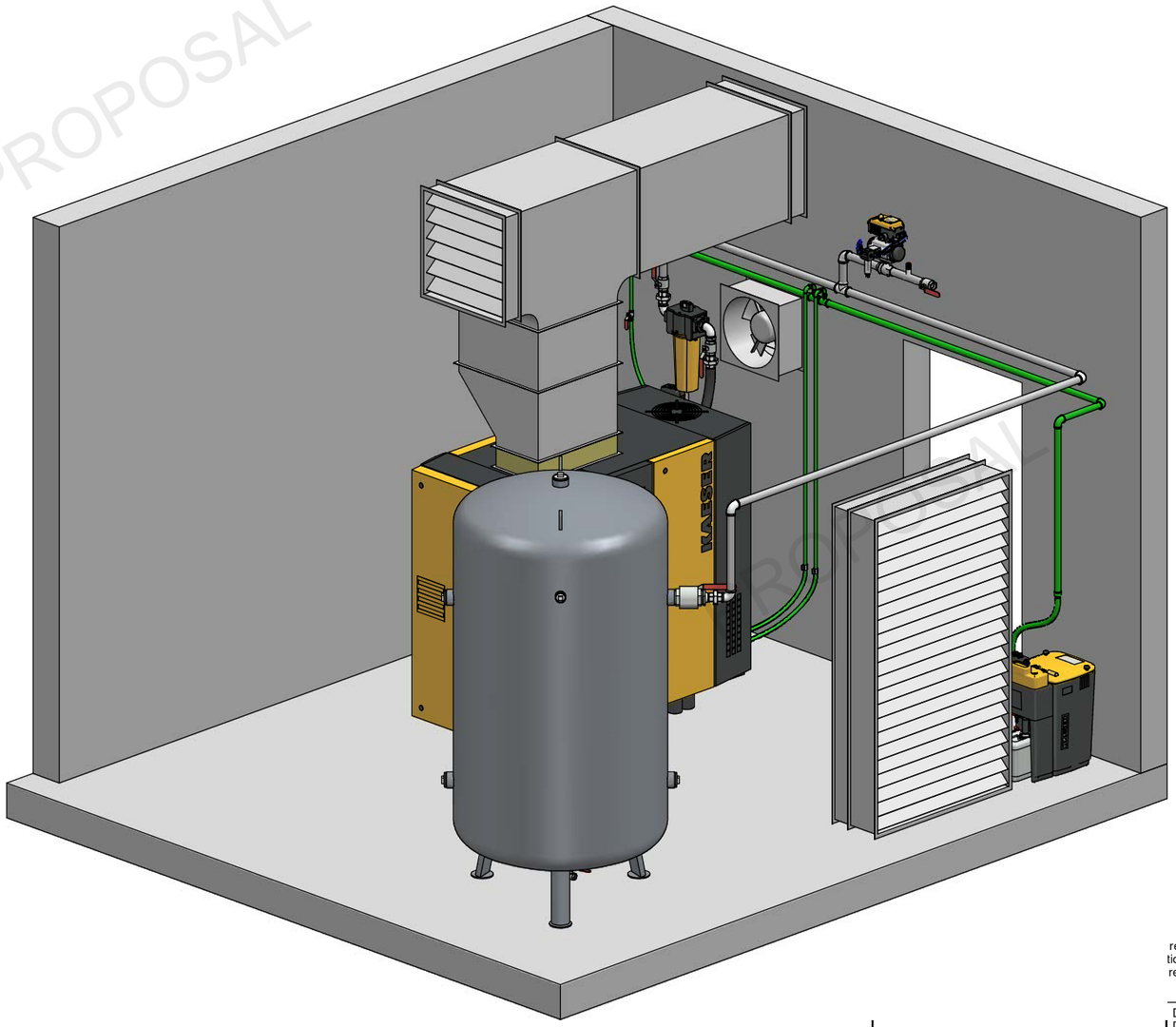
KAESER KOMPRESSOREN

Sketch	Page 2 of 3	Paper size	DIN A3 / 1:50
P&I Diagram	PI	Description	
Sketch	C2		

Replaced by

Technical data see page 3

Compressor model	Working pressure [bar(g)]	Compressed air connection	Air entrance aperture free cross section per unit [m²]	Incoming air volume per unit [m³/h]	Air exhaust duct dimensions (free cross section) per unit [m²]	Permissible overall pressure loss for exhaust duct per unit [Pa]	Exhaust air fan (thermostatically controlled) [m³/h]	Filter Extra	Compressed air connection	ECO-DRAIN a)	Air receiver [l]	Compressed air connection	Air main charging system	Compressed air connection	Condensate treatment system AQUAMAT a)
ASD 35 T	8,5	G 1 1/4	0,6	6030	0,36	60	2040	F 46 KE	G 1 1/4	31 F	1000	2× G 1½; 2× G 2	DHS 4.0 32G	G 1 1/4	CF 6
ASD 40 T	8,5	G 1 1/4	0,7	6070	0,36	60	2040	F 46 KE	G 1 1/4	31 F	2000	G 2½	DHS 4.0 32G	G 1 1/4	CF 6
ASD 50 T	8,5	G 1 1/4	0,8	6810	0,36	60	2040	F 46 KE	G 1 1/2	31 F	2000	G 2½	DHS 4.0 40G	G 1 1/2	CF 9
ASD 60 T	**8,5**	**G 1 1/4**	**0,9**	**7770**	**0,36**	**40**	**2040**	**F 83 KE**	**G 1 1/2**	**31 F**	**2000**	**G 2½**	**DHS 4.0 40G**	**G 1 1/2**	**CF 9**



Design limits for ambient temperature
min.: + 3° C
max.: + 30° C
---
a) Climatic zone 2

At ambient temperatures higher than 25 °C, the compressed air quality can result in class 5 – 7 regarding humidity content acc. to ISO 8573-1.

Air receiver represents minimum recommended size

ATTENTION!
Minimum width of door is total component width + 100 mm

regulations of EN 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105
tional safety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of
regulations have to be observed. The installation of a sub- assembly in terms of the pressure equipment directive 2014/68/EU

Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

Project No.	00132841	Station Setup ID	198341	Station ID	28896
Status	PROPOSAL				

Rev.	Modification	Date	Name		Date	Name
03	CAD released	23.03.2022	hobusch		Date	Name
02	CAD created	22.03.2022	teubl	Drawing	21.03.2022	nahhas1
1	Project created	15.06.2021	teubl	Review	21.03.2022	
0		31.05.2016		Released	21.03.2022	
				Template Rev.	2021/06	

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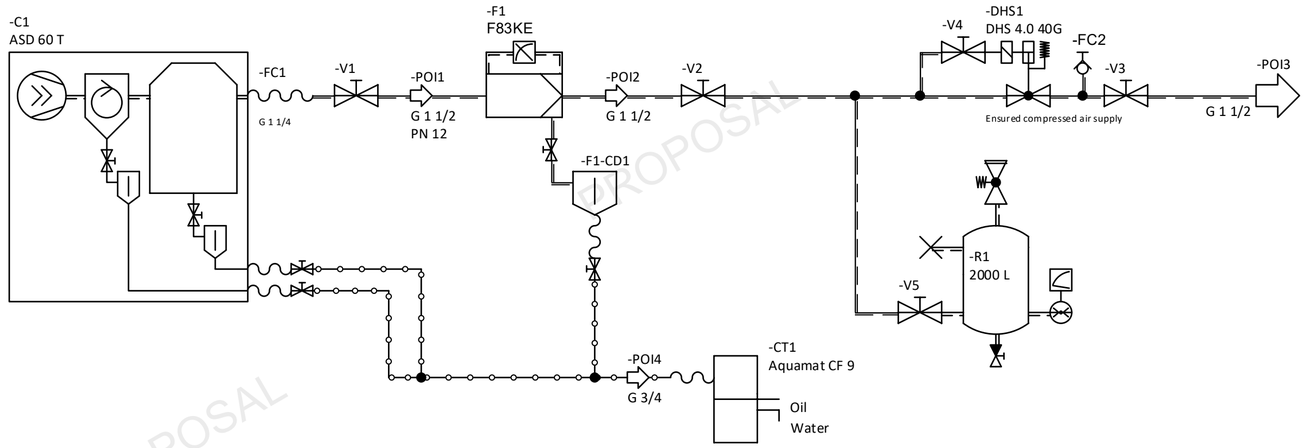
Sample planning sketch
with exhaust air duct /

Oil injected screw compressor
shown: 1x ASD 60 T, 1x F 83 Ke /

Sketch	Page 3 of 3	Paper size	DIN A3 / 1:50
P&I Diagram	PI	Description	
Sketch	C2		
Original		Replaces	Replaced by

Room 1



Room temperature limitations by design

Min. 3 °C

Max. 30 °C

Piping key

Compressed air

Condensate

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

Compressed air quality class to ISO 8573-1: 2010 (Particle : Water : Oil) when the operational conditions and maintenance specifications are met

In wet areas of the compressed air main all connections have to be built as swan neck from above. Exception: a sidelong connection is possible, if the collective line is at least two pipe sizes larger than the connection. The main has to be installed with a descending gradient and a condensate drain has to be provided at the lowest point.

Documents released by engineering are identified by these characteristics in the title block

date of review/release

name of the reviewing/ releasing individual

Furthermore, any unreleased documents are identified by this designation: "Draft – for technical clarification only"

Other applicable documents are listed in "Documents overview"

All site work, including but not limited to, site preparation, construction, system component assembly and installation, must be completed in accordance with all relevant local, state and national codes and regulations, including but not limited to, building, electrical and occupational safety. End-users and all sub-contractors responsible for this work may be provided with product information to initiate these tasks, however this is not a substitution for reading and understanding the appropriate Product Manuals prior to installation of the equipment.

Since the compliance with the various federal, state and local laws and regulations concerning occupational health and safety and pollution are affected by the use, installation and operation of Equipment and other matters over which Kaeser has no control, Kaeser assumes no responsibility for compliance with those laws and regulations, whether by way of indemnity, warranty or otherwise.

Project number	00132841		Station setup ID	198341		Station ID 28896
Status	PROPOSAL			Proposal 1		
					Date	Name
				Drawing	21.03.2022	Nahhas1
				Check		hobusch
				Approval	23.03.2022	hobusch
0		31.05.2016				
1	Project created	15.06.2021	teubl			
02	CAD created	22.03.2022	teubl			
03	CAD released	23.03.2022	hobusch			
Rev.	Change	Date	Name	Orig.		Replaces / Replaced by

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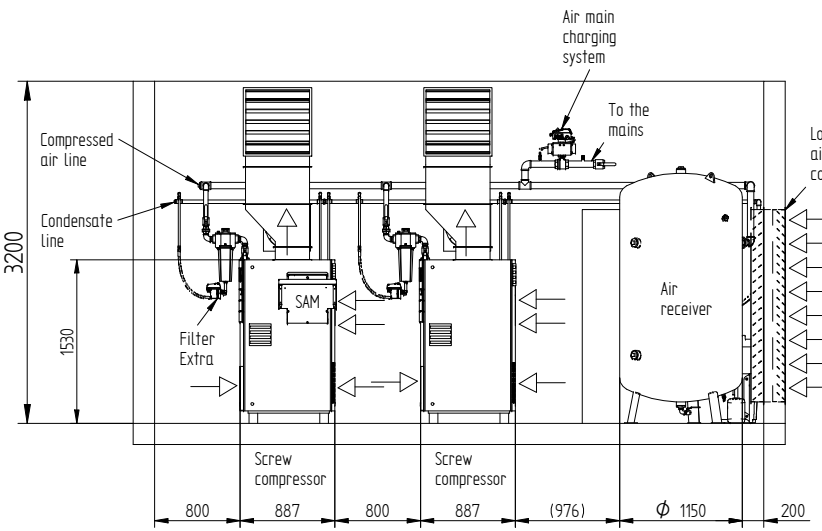
Sample planning sketch
with exhaust air duct /

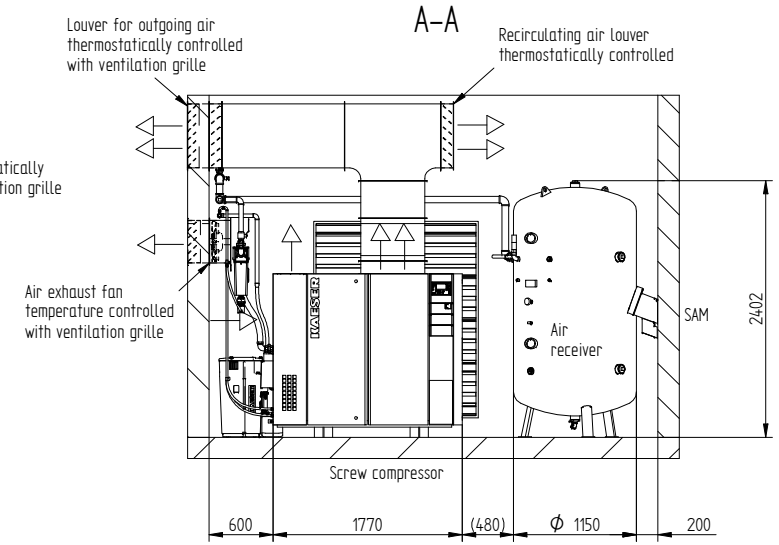
Oil injected screw compressor
shown: 1x ASD 60 T, 1x F 83 Ke /

P&I diagram Sh. 1

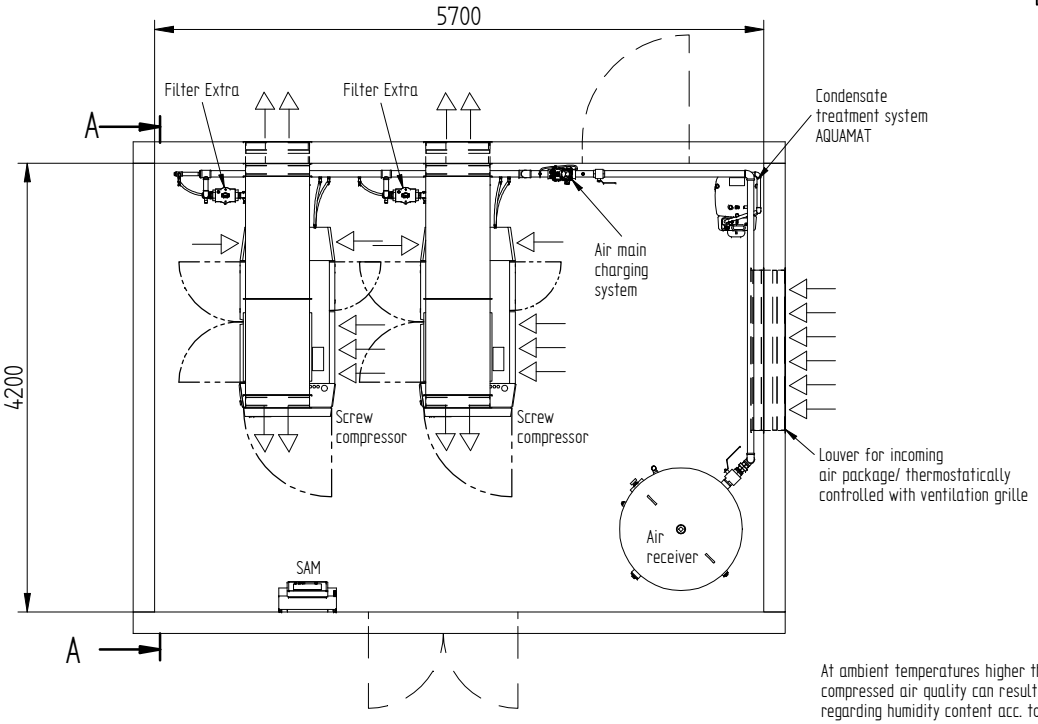
P&I diagram

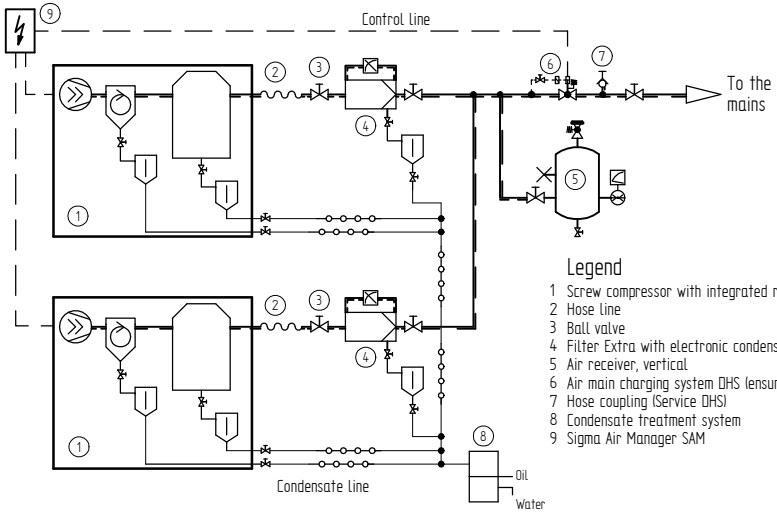
Sheet size DIN A2
297 x 420 mm





Design limits for ambient temperature
min.: + 3° C
max.: + 40° C





Legend
1 Screw compressor with integrated refrigeration dryer
2 Hose line
3 Ball valve
4 Filter Extra with electronic condensate drain
5 Air receiver, vertical
6 Air main charging system DHS (ensured air supply)
7 Hose coupling (Service DHS)
8 Condensate treatment system
9 Sigma Air Manager SAM

ATTENTION!
Minimum width of door is total component width + 100 mm

Technical data see page 2

At ambient temperatures higher than 25 °C, the compressed air quality can result in class 5 — 7 regarding humidity content acc. to ISO 8573-1.

Condensate lines have to be connected to a collecting line via swan neck or are to be fed to the condensate treatment system separately. A pressure-less drain has to be provided for.

This drawing also contains work to be done on site. The regulations of EN 1012 and national regulations for setting up of power installations like VDE 0100 have to be observed; the requirements of existing operational safety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of installation.
The national safety and accident prevention regulations have to be observed.
The installation of a sub- assembly in terms of the pressure equipment directive 2014/ 68/ EU has to be carried out according to this directive.

KAESER KOMPRESSOREN
Template Rev. 02.03.2011

P + I	Scale	
[X]	1:50	
Inst. [X]	DIN A3	

	Date	Name
Drawn	10/01/2017	Nahhas1
Checked	10/01/2017	Hobusch

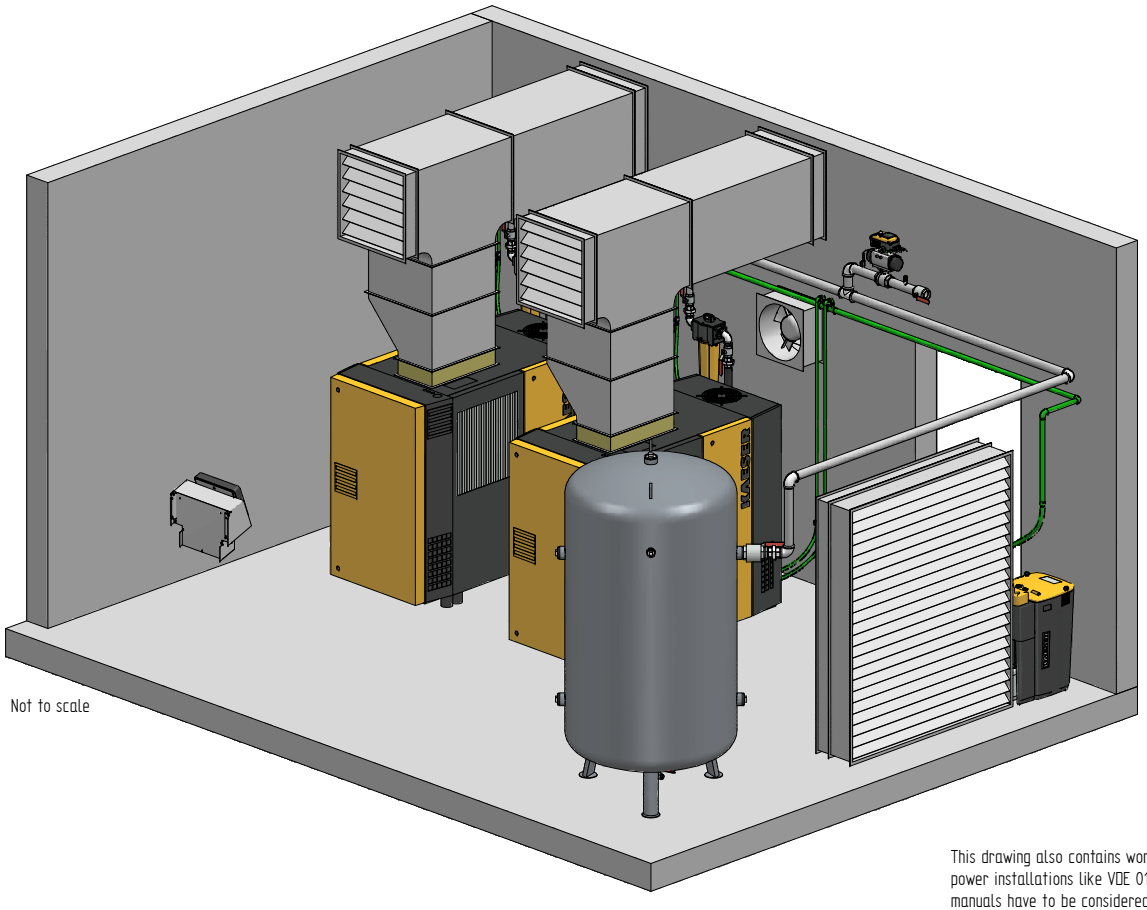
Description: Sample layout sketch // 40° C
2x ASD_T with exhaust air duct
(Shown 2x ASD 60 T and 2x F 83 KE)

Plan No. LYMU0008300e

Compressor model	Working pressure [bar(g)]	Compressed air connection	Air entrance aperture free cross section per unit [m²]	Incoming air volume per unit [m³/h]	Air exhaust duct dimensions (free cross section) per compressor [m²]	Permissible overall pressure loss for exhaust duct per compressor Δp [Pa]	Exhaust air fan (thermostatically controlled) per integrated dryer [m³/h]	Filter Extra	Compressed air connection	ECO-DRAIN a)	Compressed air collective line (two units)	Air receiver [l]	Compressed air connection	Control	Air main charging system	Compressed air connection	Condensate treatment unit AQUAMAT a)
ASD 35 T	8.5	G 1 1/4	0.6	6030	0.36	60	2040	F 46 KE	G 1 1/4	31 F	G 2	1000	2 × G 1½; 2 × G 2	SAM 4.0	DHS 50 G	G 2	CF 19
ASD 40 T	8.5	G 1 1/4	0.7	6070	0.36	60	2040	F 46 KE	G 1 1/4	31 F	G 2	2000	G 2½	SAM 4.0	DHS 50 G	G 2	CF 19
ASD 50 T	8.5	G 1 1/4	0.8	6810	0.36	60	2040	F 46 KE	G 1 1/2	31 F	G 2	2000	G 2½	SAM 4.0	DHS 50 G	G 2	CF 19
ASD 60 T	8.5	G 1 1/4	0.9	7770	0.36	40	2040	F 83 KE	G 1 1/2	31 F	G 2	2000	G 2½	SAM 4.0	DHS 50 G	G 2	CF 19

Design limits for ambient temperature
min.: + 3° C
max.: + 40° C

a) Climatic zone 2



Not to scale

At ambient temperatures higher than 25 °C, the compressed air quality can result in class 5 – 7 regarding humidity content acc. to ISO 8573-1.

Air receiver represents minimum recommended size

This drawing also contains work to be done on site. The regulations of EN 1012 and national regulations for setting up of power installations like VDE 0100 have to be observed; the requirements of existing operational safety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of installation.
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KAESER KOMPRESSOREN
Template Rev. 02.03.2011

P + I [X]
Inst. [X]

Scale 1:50
DIN A3

	Date	Name
Drawn	10/01/2017	Nahhas1
Checked	10/01/2017	Hobusch

Description: Sample layout sketch // 40° C
2x ASD_T with exhaust air duct
(Shown 2x ASD 60 T and 2x F 83 KE)

Plan No. LYMU0008300e

Page 2 of 2

	Rul Kürzel	P&I abbrevations
C	Kompressor	compressor
FC	Schlauchleitung / Axialkompensator	hose lline / axial compensator
V	Ventil	valve
D	Drucklufttrockner	dryer
F	Filter	filter
R	Behälter	reciever
DHS	Druckhaltesystem	air main charging system
CT	Kondensataufbereitungssystem	condensate treatment system
P	Übergabepunkte (Angaben zu Druck, Durchmesser etc.)	point of interest (diameter, pressure, etc.)

Application Engineering - Technical Support 2024