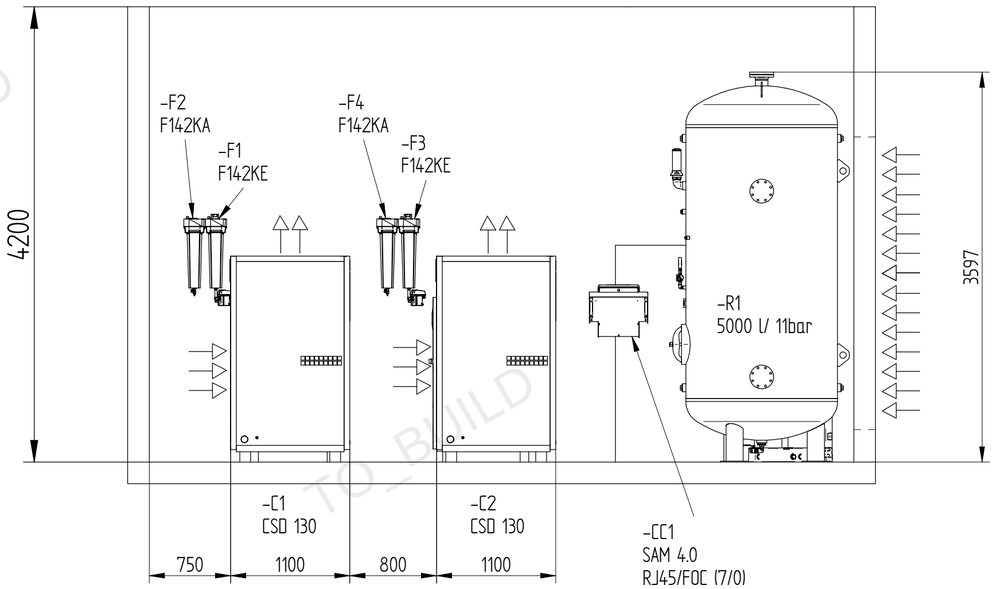
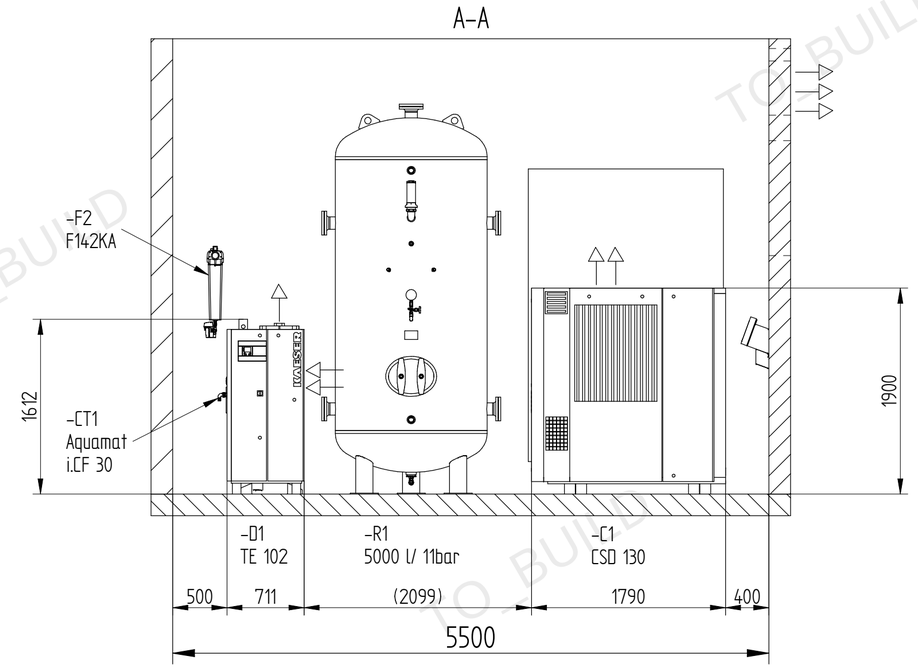




Design and installation of venting system and piping by specialized company.

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.

Technical data see page 3

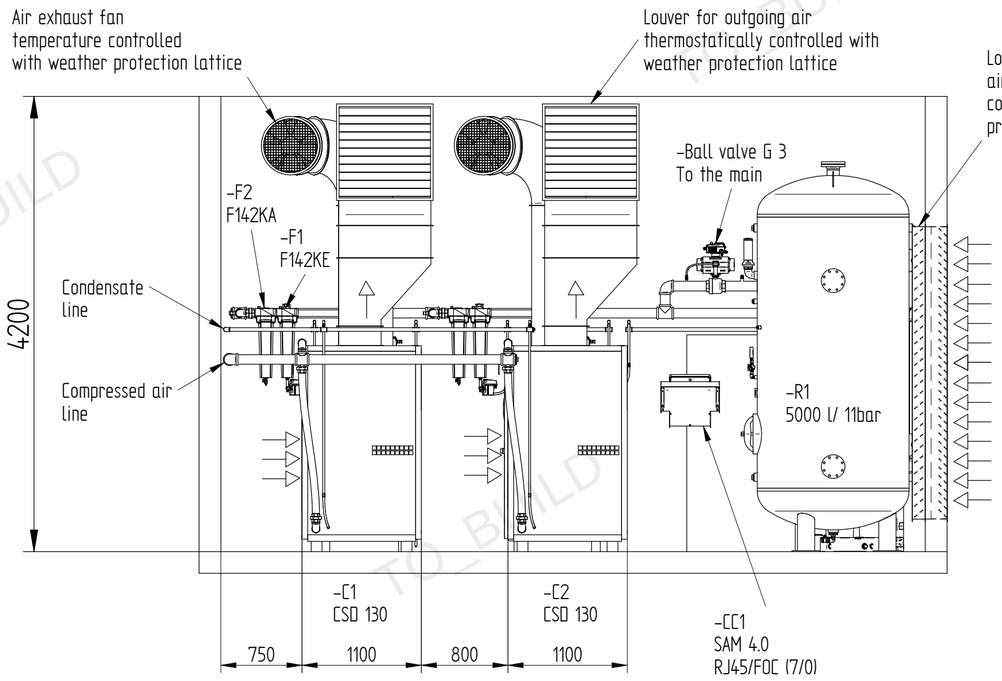
Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

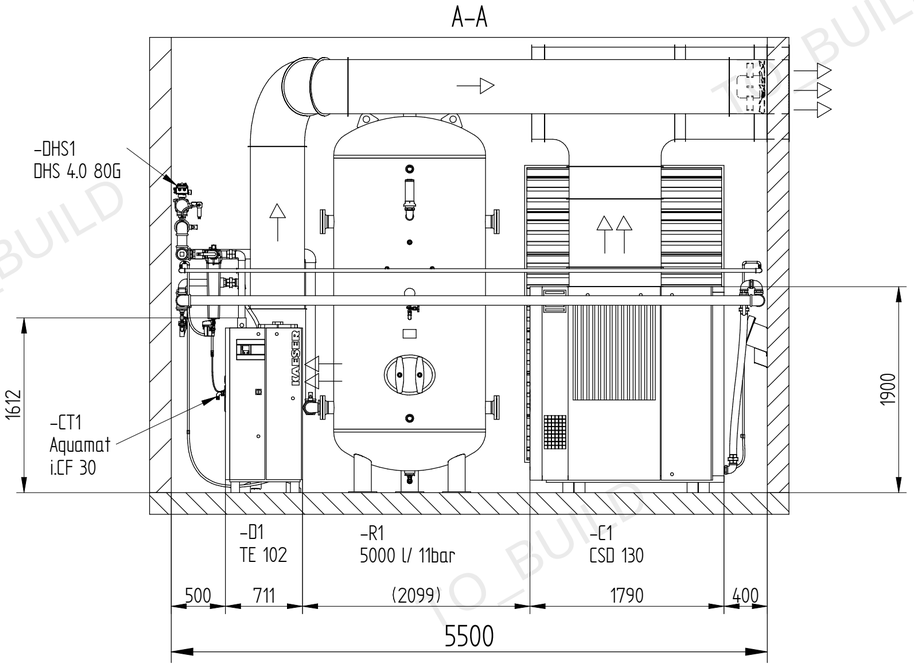
Project No.	00143502		Station Setup ID	246876		Station ID 37767
Status	TO_BUILD					
03	CAD released	06.11.2023	hobusch		Date	Name
02	CAD released	20.10.2023	hobusch	Drawing	30.10.2023	nahhas1
01	CAD released	18.10.2023	hobusch	Review	30.10.2023	Hobusch
		<RevD 4 DMY>		Released	30.10.2023	Hobusch
				Template Rev.	2021/06	
		<RevD 6 DMY>				
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		

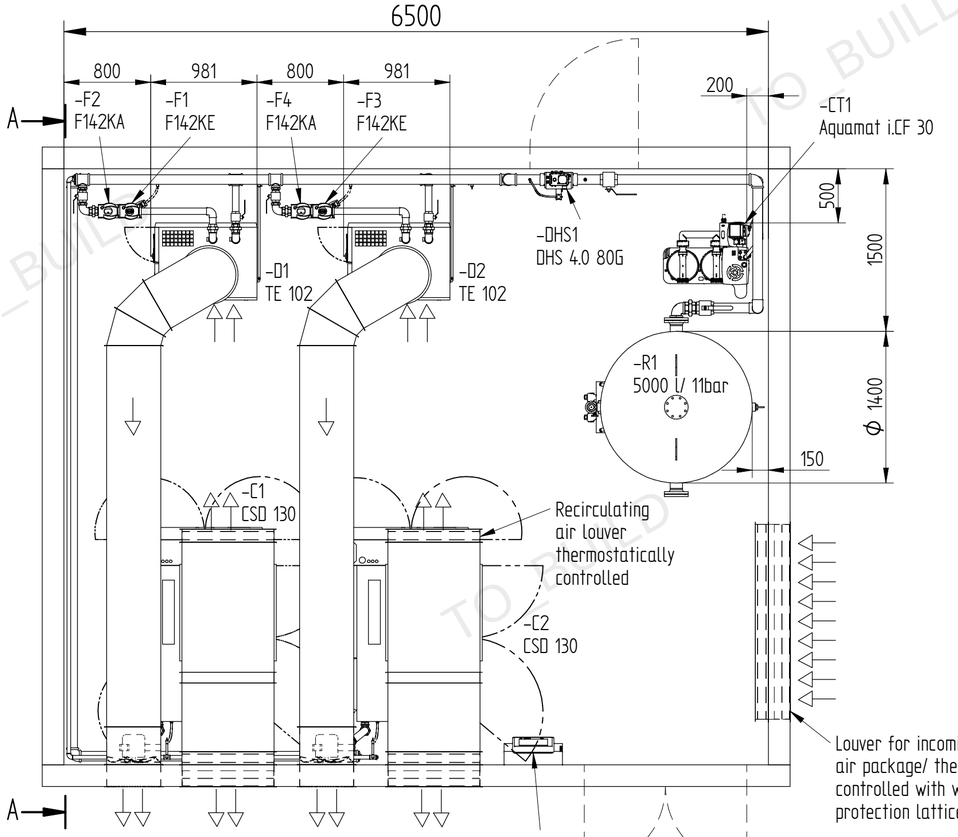
Sample planning sketch
with exhaust air duct / T max.: +25 °C /

Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TE 102, 2x F 142 KE/KA /

Sketch	Page 1 of 3	Paper size	DIN A2 / 1:40
P&I Diagram	PI	Description	Views without Piping and Ventilation
Sketch	C2		
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

Louvre for incoming air package/ thermostatically controlled

Louvre for incoming / outgoing air with weather protective lattice

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Technical data see page 3

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Project No.	00143502		Station Setup ID	246876		Station ID 37767
Status	TO_BUILD					
03	CAD released	06.11.2023	hobusch		Date	Name
02	CAD released	20.10.2023	hobusch	Drawing	30.10.2023	nahhas1
01	CAD released	18.10.2023	hobusch	Review	30.10.2023	Hobusch
		<RevD 4 DMY>		Released	30.10.2023	Hobusch
				Template Rev.	2021/06	
		<RevD 6 DMY>				
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		

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

Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TE 102, 2x F 142 KE/KA /

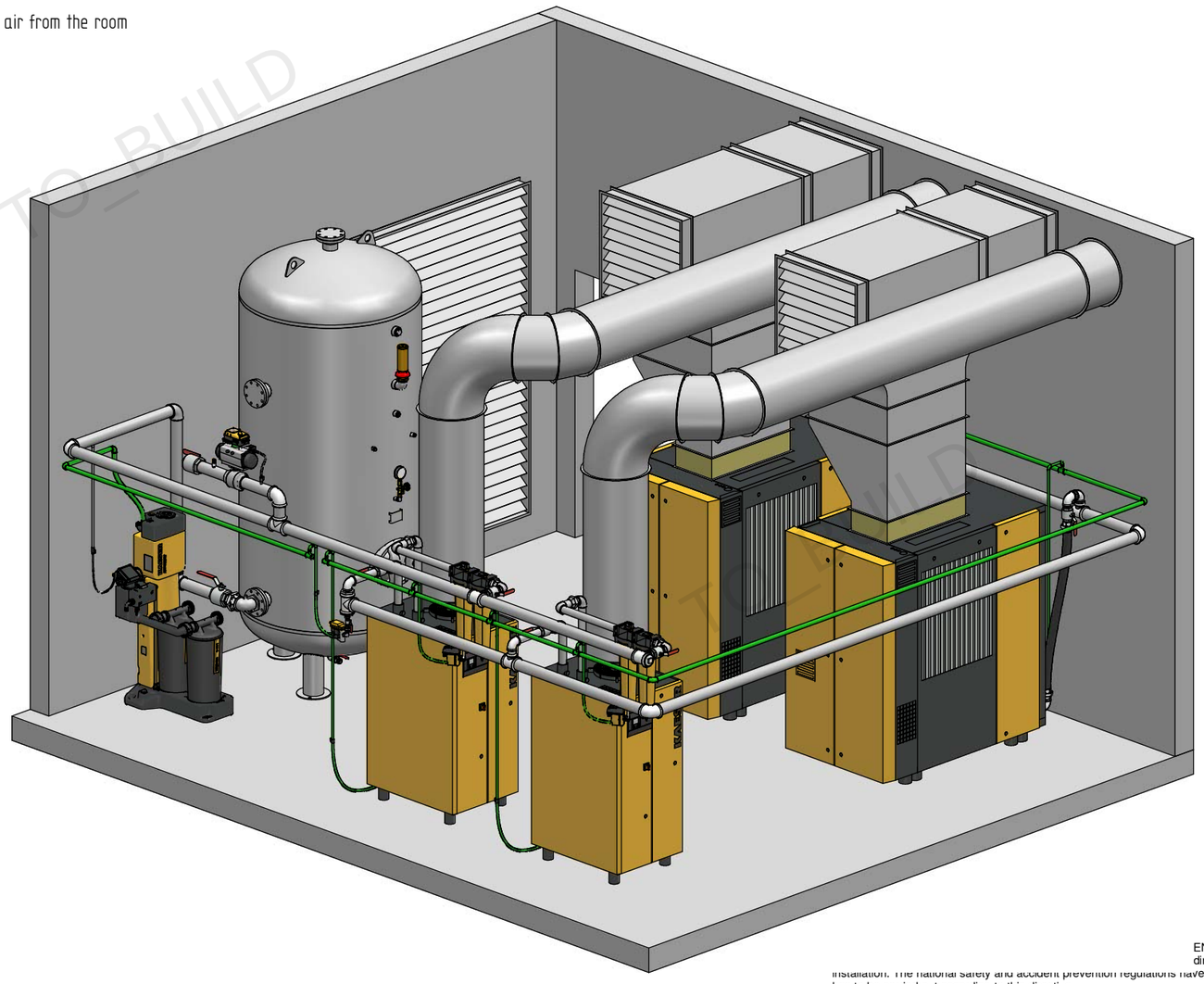
KAESER KOMPRESSOREN ®

Sketch	Page 2 of 3	Paper size	DIN A2 / 1:40
P&I Diagram	PI	Description	Views with Piping and Ventilation
Sketch	C2		
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 a)	Refrigeration dryer model	Compressed air connection	Air entrance aperture (free cross section) per unit b) [m²]	Incoming air volume per unit b) [m³/h]	Exhaust air fan (thermostatically controlled) b) [m³/h]	Filter Extra	Compressed air connection	ECO-DRAIN a)	Filter Adsorption	Compressed air connection	Air receiver [l]	Compressed air connection	Control	Air main charging system	Compressed air connection	Condensate treatment system AQUAMAT a)
CSD 90	8.5	G 2	1.2	8510	0.6	80	G 3	32	TD 73	G 2	0.25	2500	2500	F 83 KE	G 2	31 F	F 83 KA	G 2	3000	G 2 1/2	SAM 4.0	DHS 4.0 80G	G 3	i.CF 30
CSD 110	8.5	G 2	1.4	10110	0.6	80	G 3	32	TD 94	G 2	0.25	2500	2500	F 110 KE	G 2	31 F	F 110 KA	G 2	5000	DN 100	SAM 4.0	DHS 4.0 80G	G 3	i.CF 30
CSD 130	**8.5**	**G 2**	**1.8**	**11720**	**0.6**	**60**	**G 3**	**32**	**TE 102**	**G 2**	**0.4**	**3040**	**3040**	**F 142 KE**	**G 2**	**31 F**	**F 142 KA**	**G 2**	**5000**	**DN 100**	**SAM 4.0**	**DHS 4.0 80G**	**G 3**	**i.CF 30**

a) Climatic zone 2

b) Values include the extraction of mixed air from the room



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

Air receiver represents minimum recommended size.

EN 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105 dinance 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.	00143502	Station Setup ID	246876		Station ID	37767
Status	TO_BUILD					

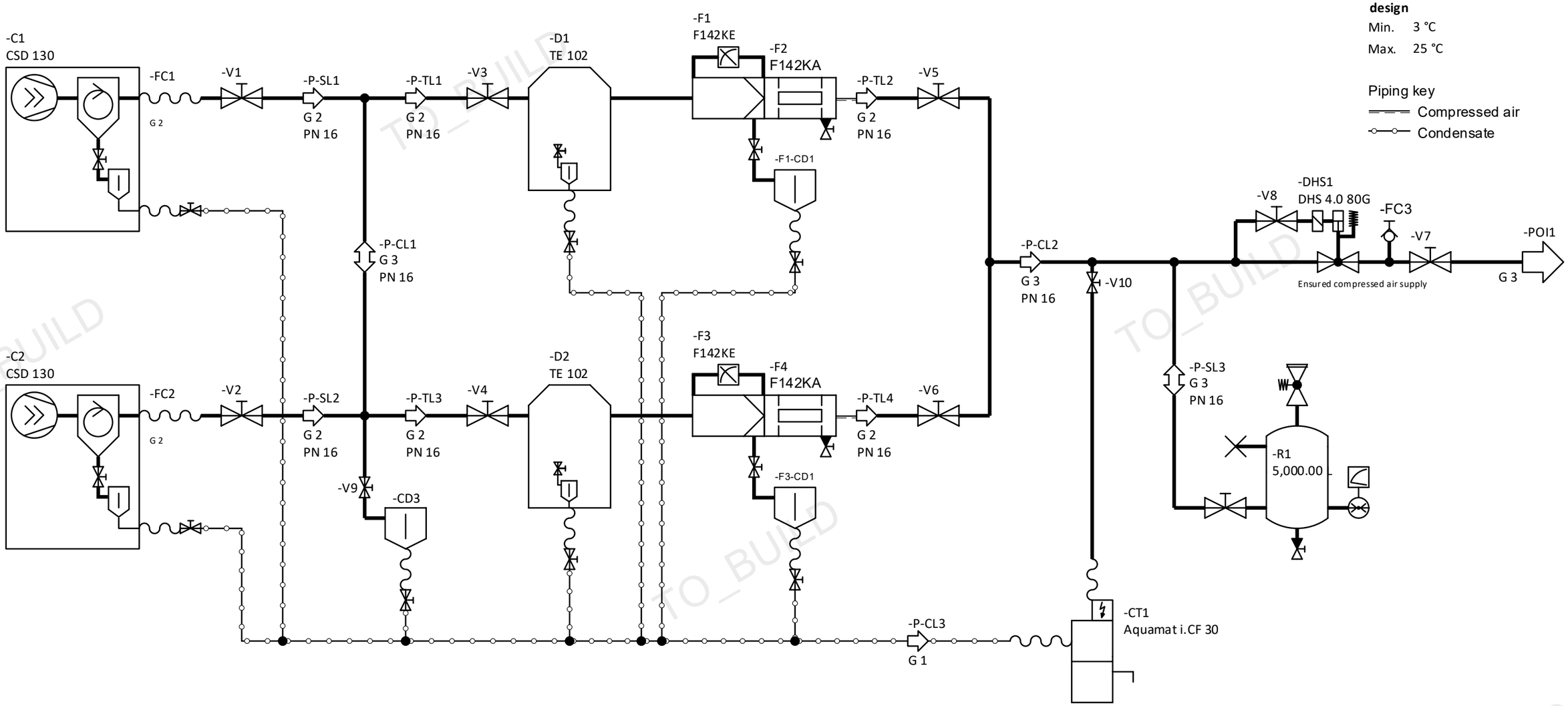
Rev.	Modification	Date	Name		Date	Name
03	CAD released	06.11.2023	hobusch		Date	Name
02	CAD released	20.10.2023	hobusch	Drawing	30.10.2023	nahhas1
01	CAD released	18.10.2023	hobusch	Review	30.10.2023	Hobusch
		<RevD 4 DMY>		Released	30.10.2023	Hobusch
				Template Rev.	2021/06	
		<RevD 6 DMY>		Original		
		<RevD 7 DMY>				
		<RevD 8 DMY>				

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

Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TE 102, 2x F 142 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

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 the below mentioned supplier has no control, the below mentioned supplier assumes no responsibility for compliance with those laws and regulations, whether by way of indemnity, warranty or otherwise.

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.

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.

Project number 00143502			Station setup ID 246876			Station ID 37767
Status TO_BUILD			To build 1			
					Date	Name
				Drawing	10/31/2023	Nahhas1
				Check		Hobusch
				Approval	10/31/2023	Hobusch
01	CAD released	10/18/2023	hobusch	KAESER KOMPRESSOREN®		
02	CAD released	10/20/2023	hobusch			
03	CAD released	11/6/2023	hobusch			
Rev.	Change	Date	Name	Orig.		

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

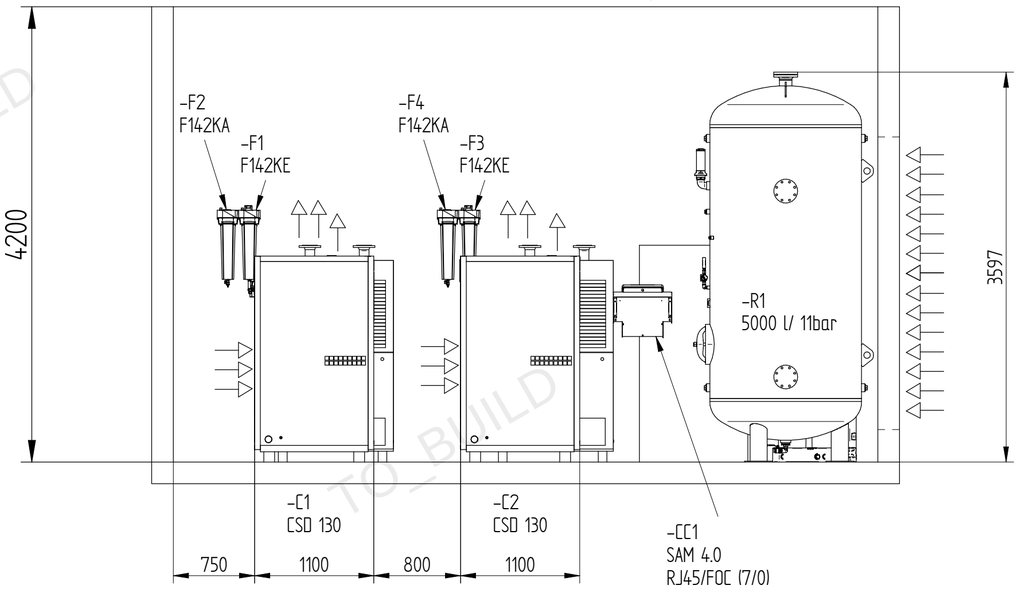
Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TE 102, 2x F 142 KE/KA /

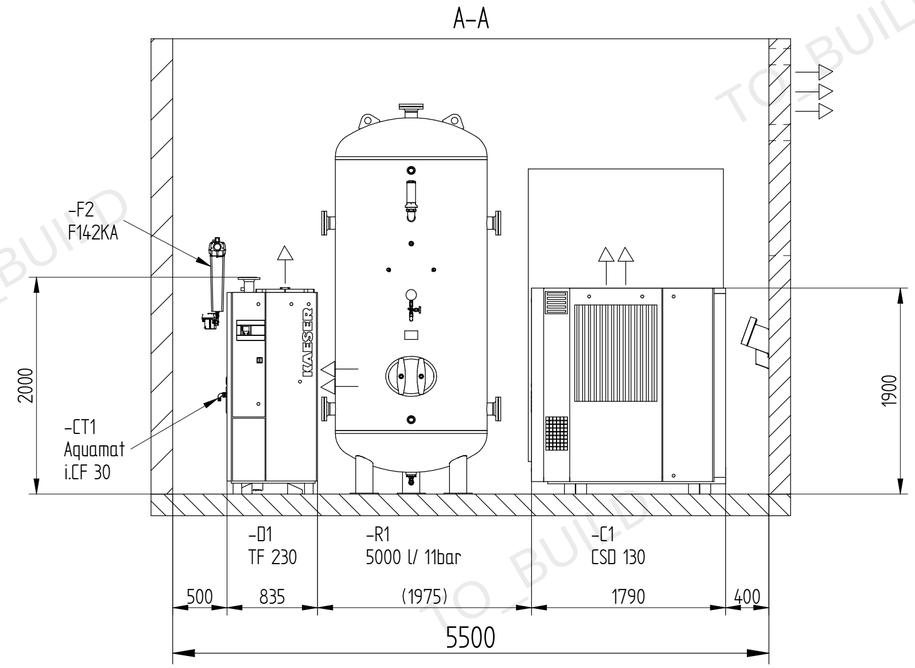
P&I diagram Sh. 1
P&I diagram

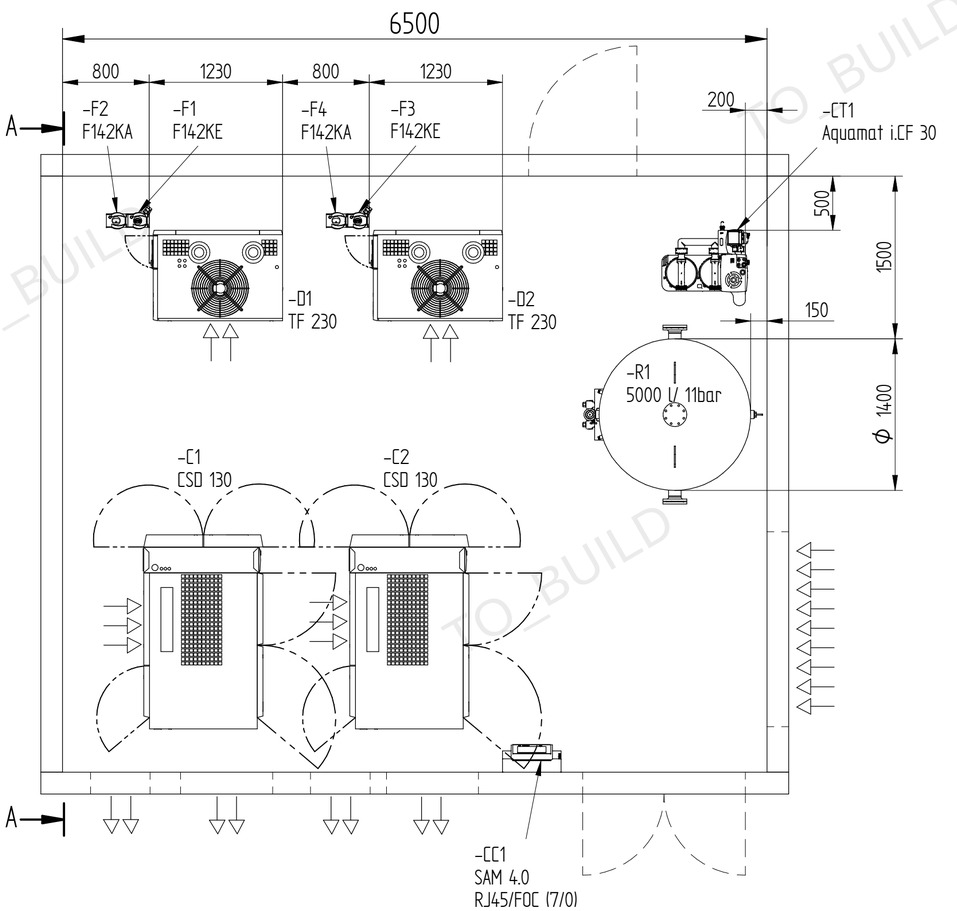
Sheet size DIN A3
297 x 420 mm

Replaces

Replaced by







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

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Technical data see page 3

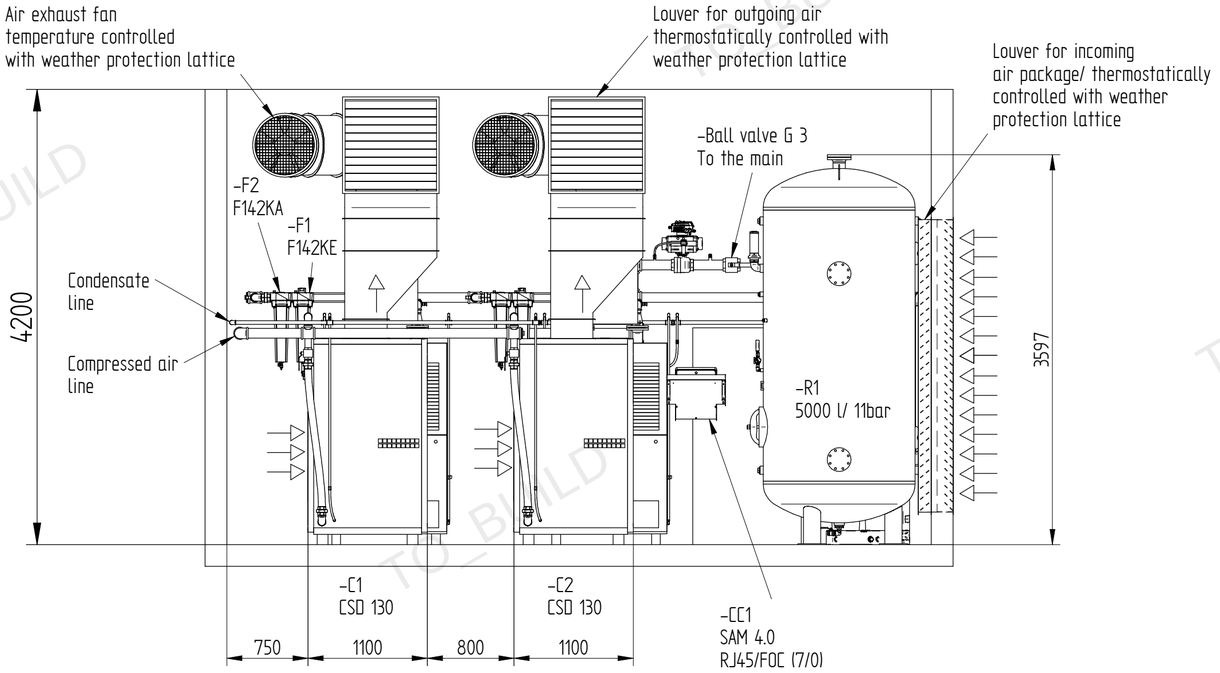
Documents released by engineering are identified by these characteristics in the title block:
Date of review/ release and name of the reviewing/ releasing individual.

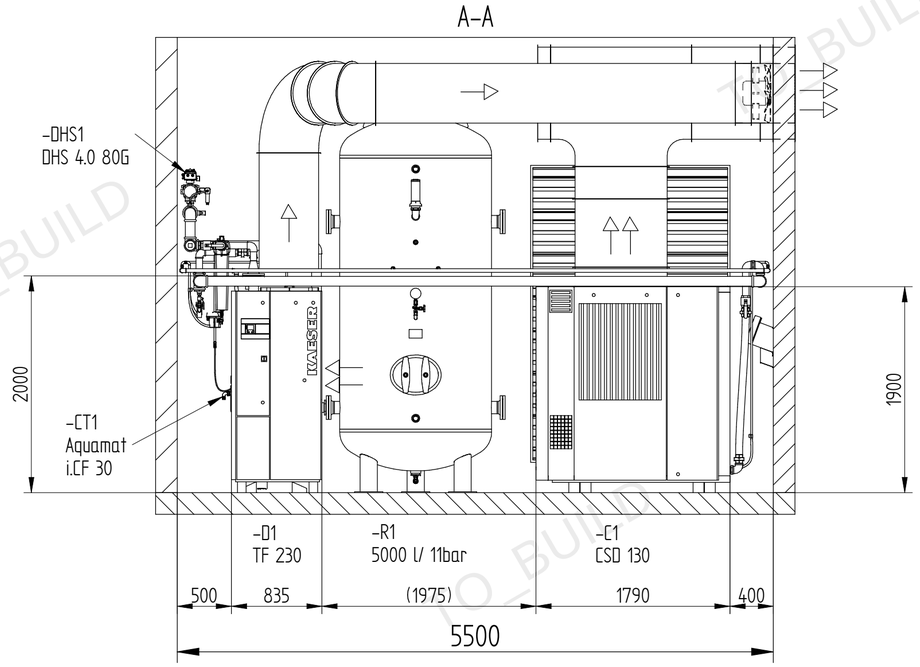
Project No.	00143218		Station Setup ID	246654		Station ID 37530
Status	TO_BUILD					
06	CAD released	06.11.2023	hobusch		Date	Name
05	CAD released	18.10.2023	hobusch	Drawing	30.10.2023	nahhas1
04	CAD released	18.10.2023	hobusch	Review	30.10.2023	Hobusch
03	CAD created	12.10.2023	nahhas1	Released	30.10.2023	Hobusch
02	CAD created	12.10.2023	nahhas1	Template Rev.	2021/06	
01	CAD created	09.10.2023	nahhas1			
			<RevD 7 DMY>			
			<RevD 8 DMY>			
Rev.	Modification	Date	Name	Original		

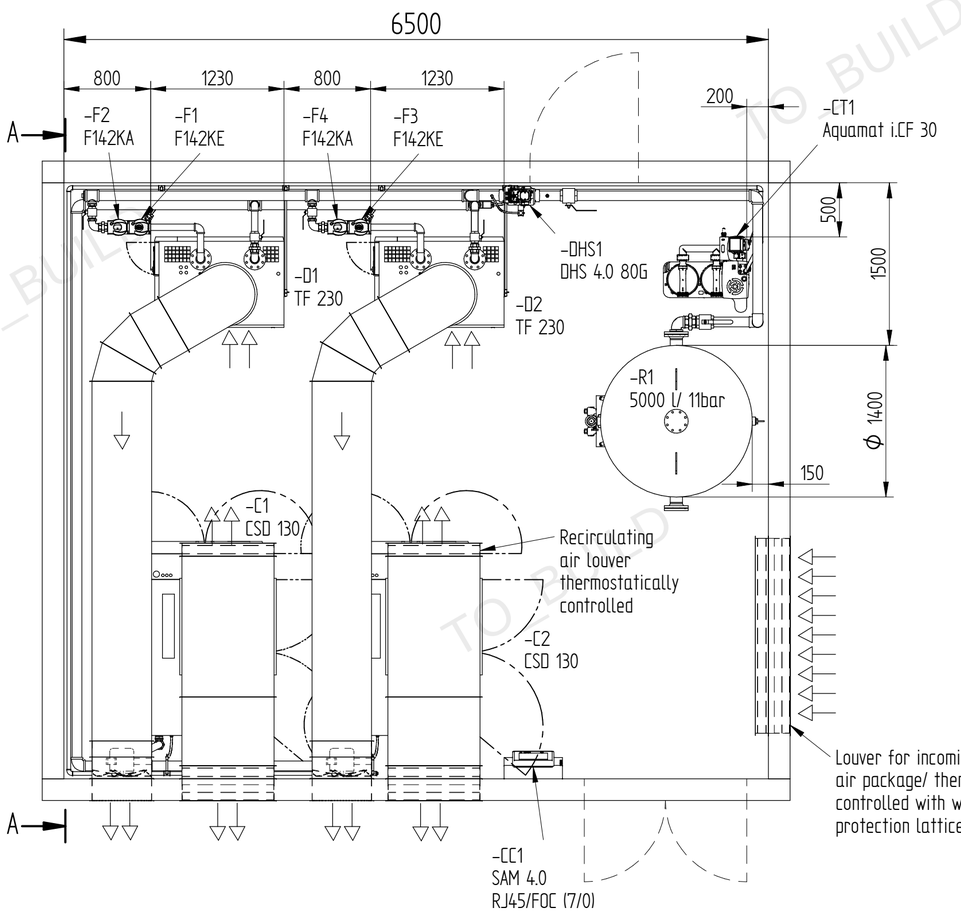
Sample planning sketch
with exhaust air duct / T max.: + 40° C /

Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TF 230, 2x F 142 KE/KA /

Sketch	Page 1 of 3	Paper size	DIN A2 / 1:40
P&I Diagram	PI	Description	Views without Piping and Ventilation
Sketch	C2		
Replaces		Replaced by	







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

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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.	00143218		Station Setup ID	246654		Station ID 37530
Status	TO_BUILD					
06	CAD released	06.11.2023	hobusch		Date	Name
05	CAD released	18.10.2023	hobusch	Drawing	30.10.2023	nahhas1
04	CAD released	18.10.2023	hobusch	Review	30.10.2023	Hobusch
03	CAD created	12.10.2023	nahhas1	Released	30.10.2023	Hobusch
02	CAD created	12.10.2023	nahhas1	Template Rev. 2021/06		
01	CAD created	09.10.2023	nahhas1			
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		Replaces

Sample planning sketch
with exhaust air duct / T max.: + 40° C /

Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TF 230, 2x F 142 KE/KA /

Sketch	Page 2 of 3	Paper size	DIN A2 / 1:40
P&I Diagram	PI	Description	Views with Piping and Ventilation
Sketch	C2		

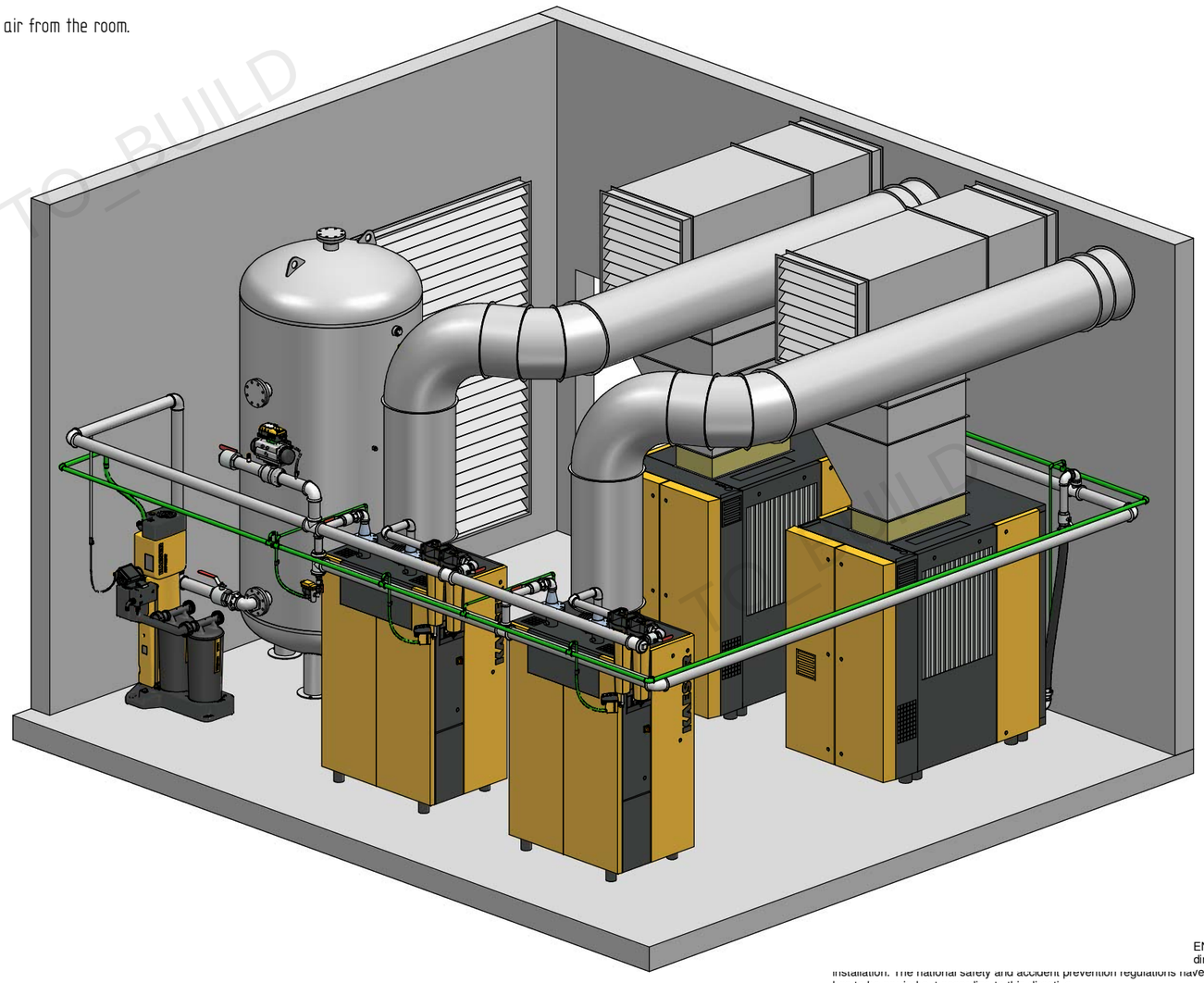
Replaced by

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]	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 a)	Refrigeration dryer model	Compressed air connection	Air entrance aperture (free cross section) per unit b) [m²]	Incoming air volume per unit b) [m³/h]	Exhaust air fan (thermostatically controlled) b) [m³/h]	Filter Extra	Compressed air connection	ECO-DRAIN a)	Filter Adsorption	Compressed air connection	Air receiver [l]	Compressed air connection	Control	Air main charging system	Compressed air connection	Condensate treatment system AQUAMAT a)
CSD 90	8.5	G 2	1.2	8510	0.6	80	G 3	32	TE 142	G 2	0.4	3040	3040	F 83 KE	G 2	31 F	F 83 KA	G 2	3000	G 2 1/2	SAM 4.0	DHS 4.0 80G	G 3	i.CF 30
CSD 110	8.5	G 2	1.4	10110	0.6	80	G 3	32	TF 230	DN 80	0.6	6000	6000	F 110 KE	G 2	31 F	F 110 KA	G 2	5000	DN 100	SAM 4.0	DHS 4.0 80G	G 3	i.CF 30
CSD 130	**8.5**	**G 2**	**1.8**	**11720**	**0.6**	**60**	**G 3**	**32**	**TF 230**	**DN 80**	**0.6**	**6000**	**6000**	**F 142 KE**	**G 2**	**31 F**	**F 142 KA**	**G 2**	**5000**	**DN 100**	**SAM 4.0**	**DHS 4.0 80G**	**G 3**	**i.CF 30**

a) Climatic zone 2

b) Values include the extraction of mixed air from the room.



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.	00143218	Station Setup ID	246654			Station ID 37530
Status	TO_BUILD					

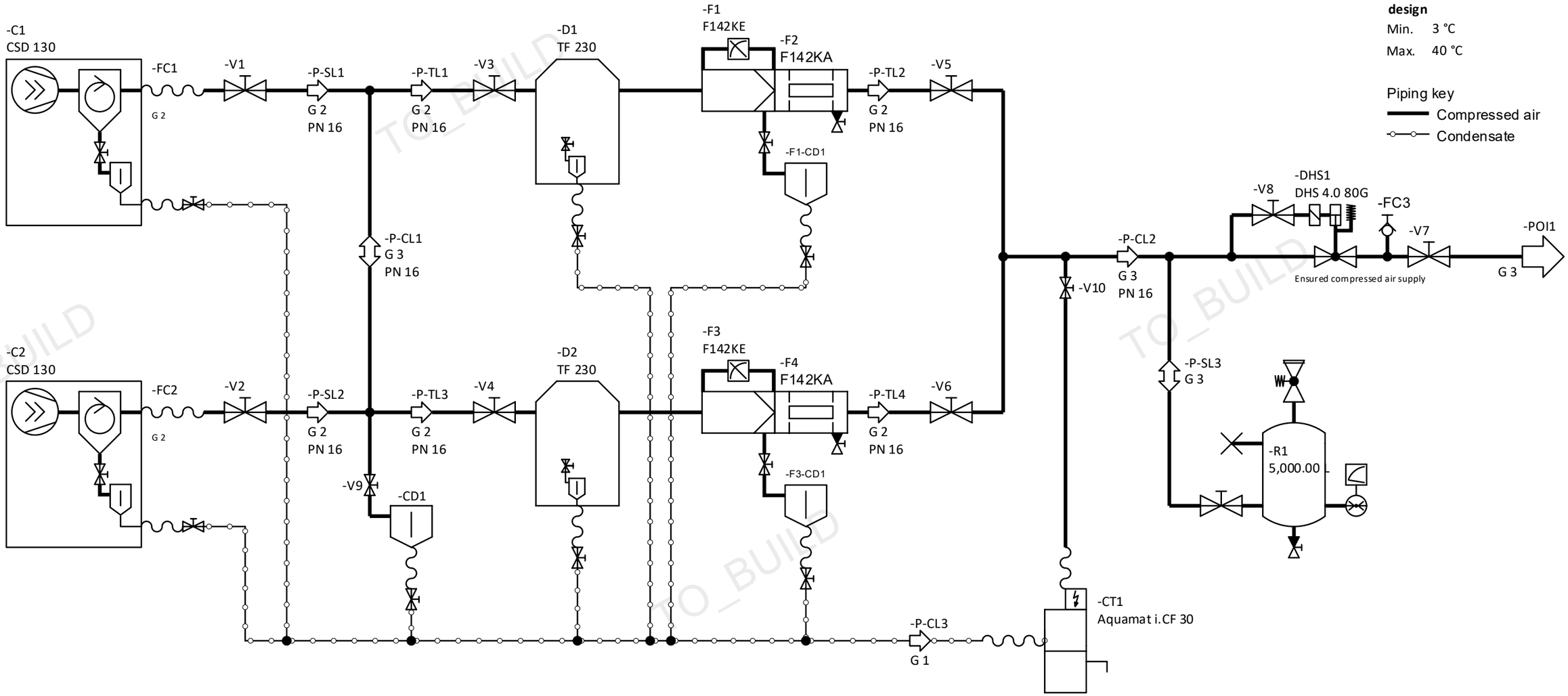
Rev.	Modification	Date	Name		Date	Name
06	CAD released	06.11.2023	hobusch		Date	Name
05	CAD released	18.10.2023	hobusch	Drawing	30.10.2023	nahhas1
04	CAD released	18.10.2023	hobusch	Review	30.10.2023	Hobusch
03	CAD created	12.10.2023	nahhas1	Released	30.10.2023	Hobusch
02	CAD created	12.10.2023	nahhas1	Template Rev. 2021/06		
01	CAD created	09.10.2023	nahhas1	Original		
		<RevD 7 DMY>				
		<RevD 8 DMY>				

KAESER KOMPRESSOREN®

Sample planning sketch
with exhaust air duct / T max.: + 40° C /

Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TF 230, 2x F 142 KE/KA /

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



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

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

date of review/release

name of the reviewing/ releasing individual

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Project number 00143218			Station setup ID 246654			Station ID 37530
Status TO_BUILD			To build 1			
					Date	Name
				Drawing	10/31/2023	Nahhas1
01	CAD created	10/9/2023	nahhas1	Check		Hobusch
02	CAD created	10/12/2023	nahhas1	Approval	10/31/2023	Hobusch
03	CAD created	10/12/2023	nahhas1			
04	CAD released	10/18/2023	hobusch			
05	CAD released	10/18/2023	hobusch			
06	CAD released	11/6/2023	hobusch			
Rev.	Change	Date	Name	Orig.		Replaces

KAESER KOMPRESSOREN®

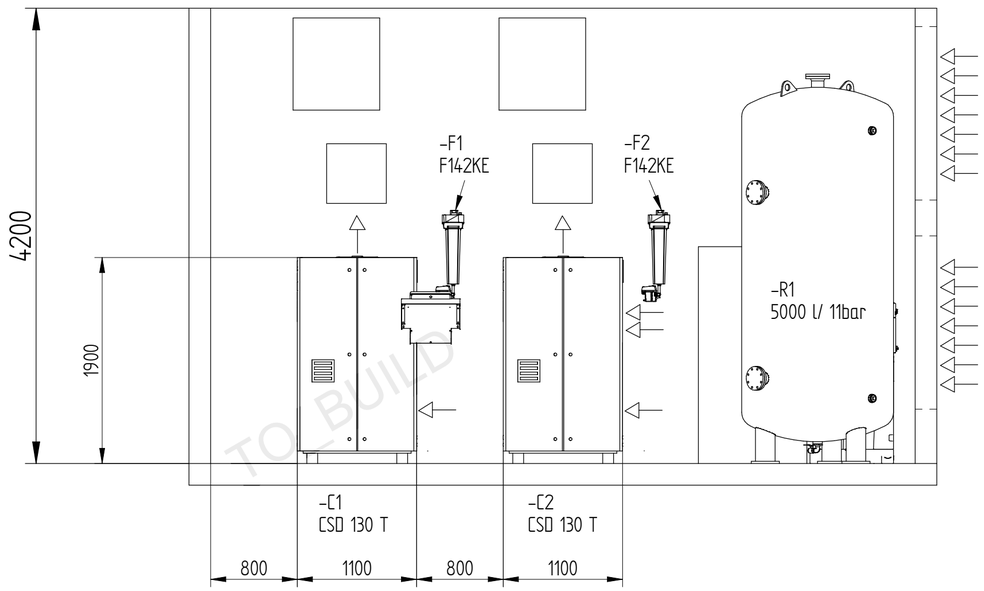
Sample planning sketch
with exhaust air duct / T max.: + 40° C /

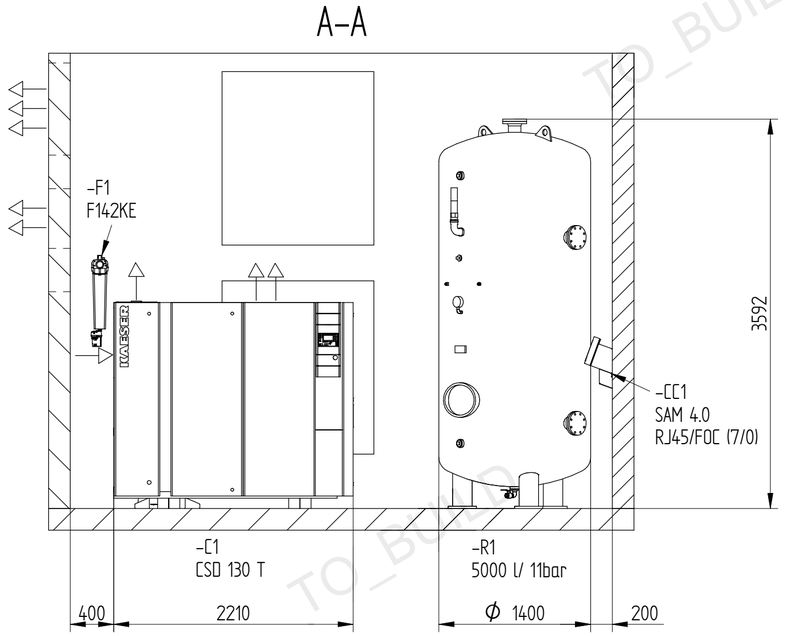
Oil injected screw compressor CSD.6
shown: 2x CSD 130, 2x TF 230, 2x F 142 KE/KA /

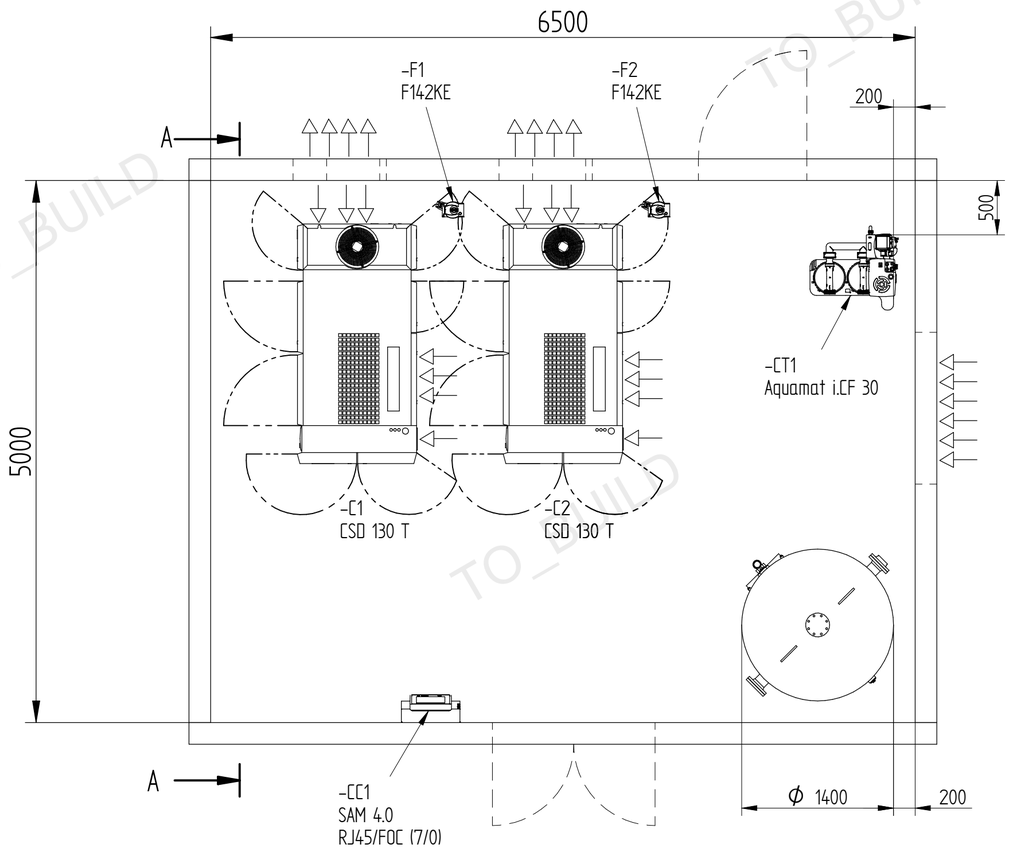
P&I diagram Sh. 1
P&I diagram

Sheet size DIN A3
297 x 420 mm

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

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.

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.

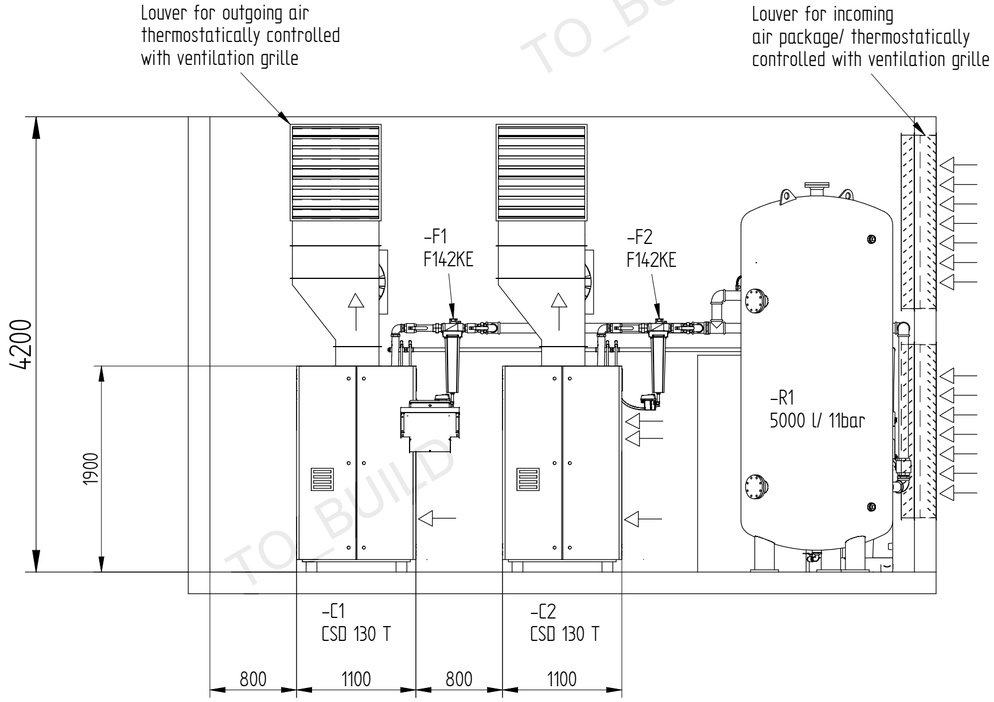
Project No.	00143503		Station Setup ID	252795		Station ID 37768
Status	TO_BUILD					
03	CAD released	11.01.2024	hobusch		Date	Name
02	CAD released	04.01.2024	hobusch	Drawing	10.01.2024	nahhas1
01	CAD released	21.12.2023	hobusch	Review	10.01.2024	<check name>
		<RevD 4 DMY>		Released	10.01.2024	<release name>
				Template Rev. 2021/06		
		<RevD 6 DMY>				
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		

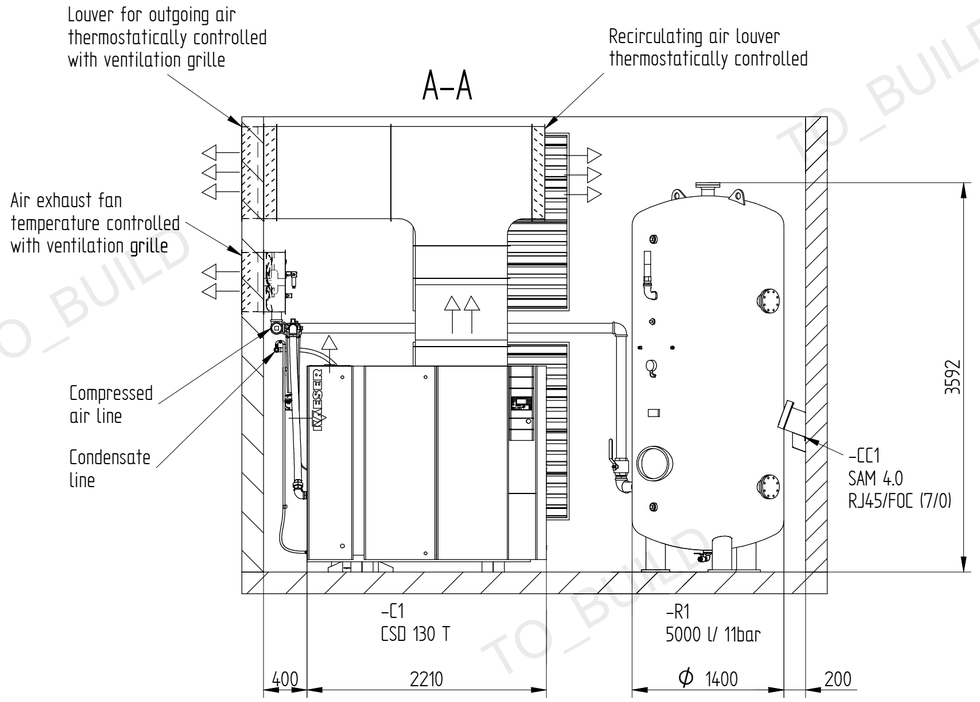
Sample planning sketch
with exhaust air duct /

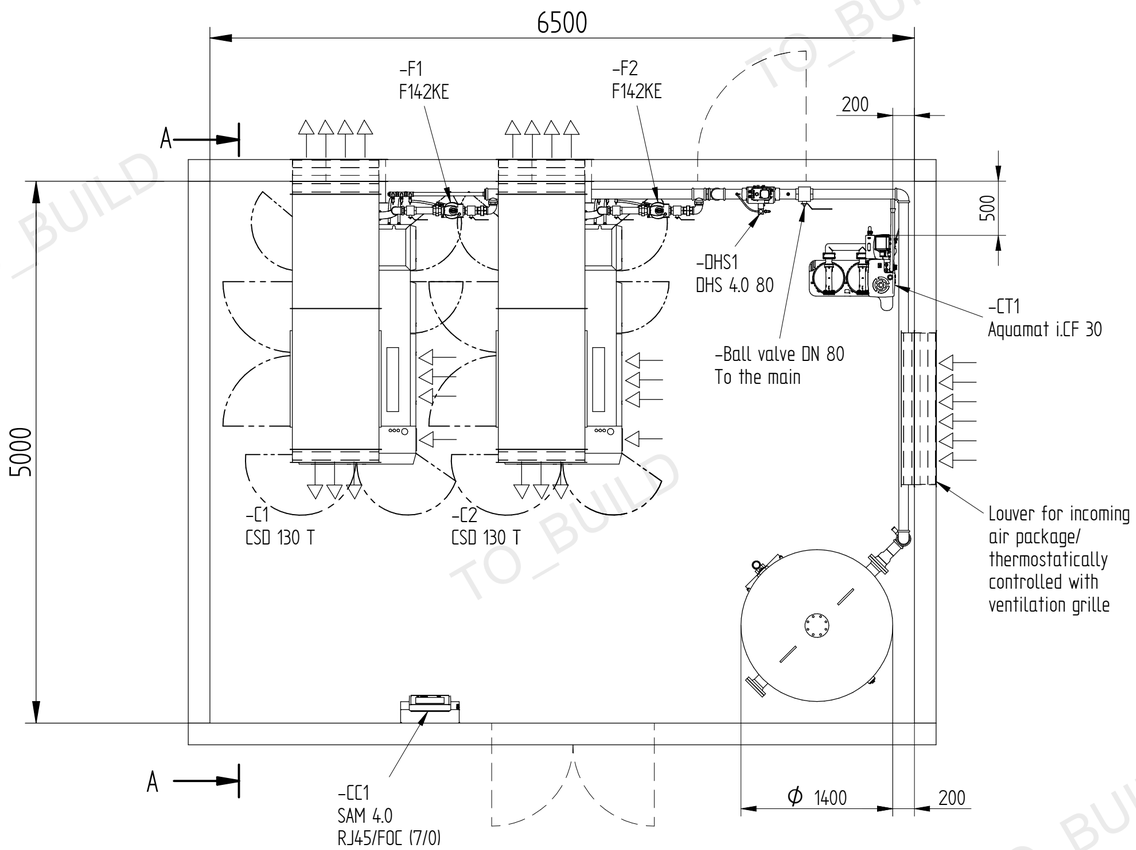
Oil injected screw compressor
shown: 2x CSD 130 T, 2x F 142 KE /

KAESER KOMPRESSOREN®

Sketch	Page 1 of 3	Paper size	DIN A2 / 1:40
P&I Diagram	PI	Description	
Sketch	C2		
Replaces		Replaced by	







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01	CAD released	21.12.2023	hobusch	Review	10.01.2024	<check name>
		<RevD 4 DMY>		Released	10.01.2024	<release name>
				Template Rev. 2021/06		
		<RevD 6 DMY>				
		<RevD 7 DMY>				
		<RevD 8 DMY>				
Rev.	Modification	Date	Name	Original		

Sample planning sketch
with exhaust air duct /

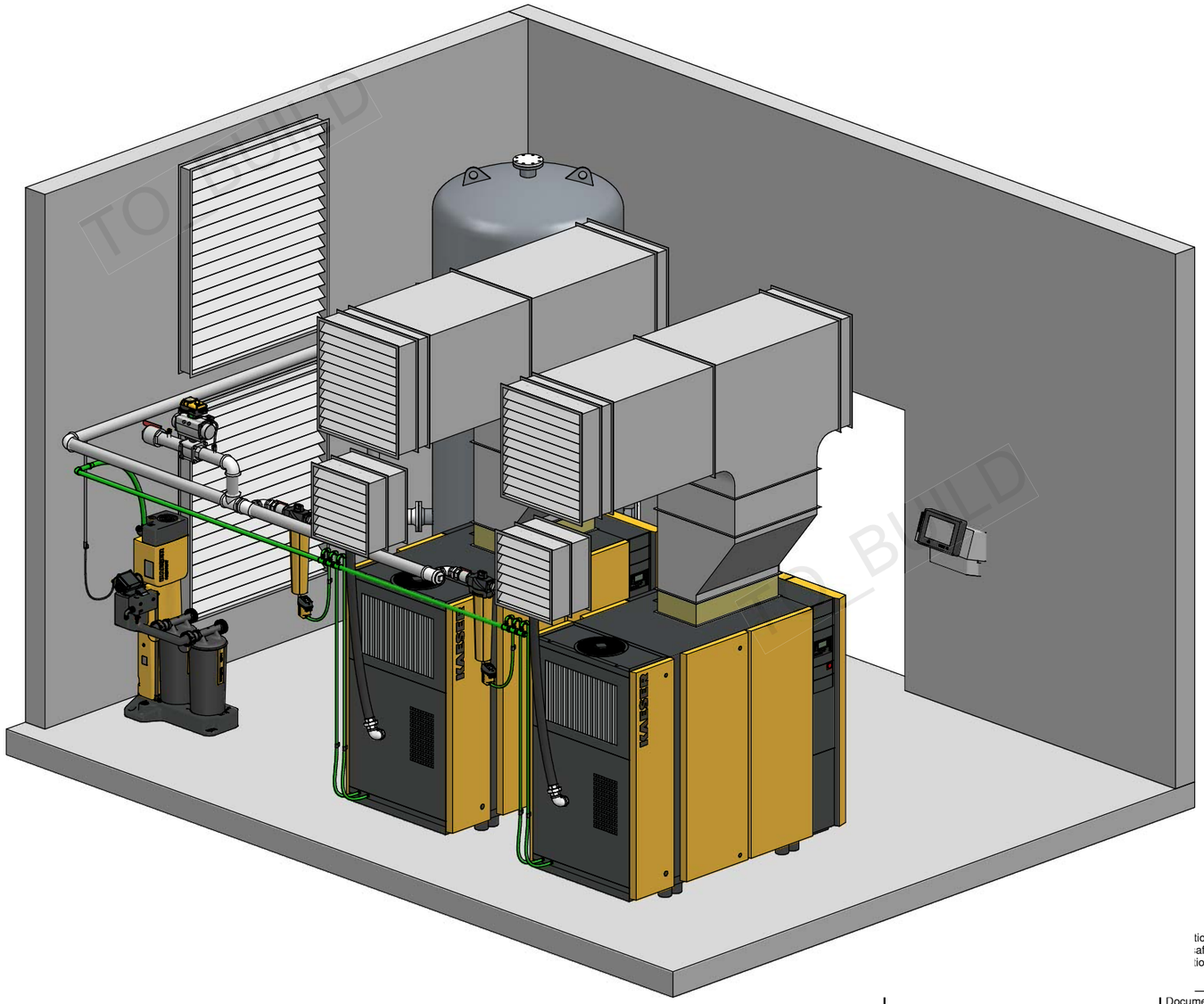
Oil injected screw compressor
shown: 2x CSD 130 T, 2x F 142 KE /

KAESER KOMPRESSOREN®

Sketch	Page 2 of 3	Paper size	DIN A2 / 1:40
P&I Diagram	PI	Description	
Sketch	C2		
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]	Exhaust air fan (thermostatically controlled) [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 system AQUAMAT a)
CSD 90 T	8,5	G 2	1,4	10670	0,6	80	2160	F 83 KE	G 2	31 F	G 3	3000	G 2 1/2	SAM 4.0	DHS 4.0 80G	G 3	i.CF 30
CSD 110 T	8,5	G 2	1,6	12270	0,6	80	2160	F 110 KE	G 2	31 F	G 3	5000	DN 100	SAM 4.0	DHS 4.0 80G	G 3	i.CF 30
CSD 130 T	**8,5**	**G 2**	**2**	**13880**	**0,6**	**60**	2160	**F 142 KE**	**G 2**	**31 F**	**G 3**	**5000**	**DN 100**	**SAM 4.0**	**DHS 4.0 80G**	**G 3**	**i.CF 30**

a) Climatic zone 2



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

Air receiver represents minimum recommended size.

tions of EN 1012 and national regulations for setting up of power installations equivalent to VDE 0100 and VDE 0105
afety ordinance and the manuals have to be considered by the operator and the employer respectively at the place of
ions 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.	00143503	Station Setup ID	252795	Station ID	37768
Status	TO_BUILD				

Rev.	Modification	Date	Name		Date	Name
03	CAD released	11.01.2024	hobusch			
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		<RevD 4 DMY>		Released	10.01.2024	<release name>
				Template Rev.	2021/06	
		<RevD 6 DMY>		Original		
		<RevD 7 DMY>				
		<RevD 8 DMY>				

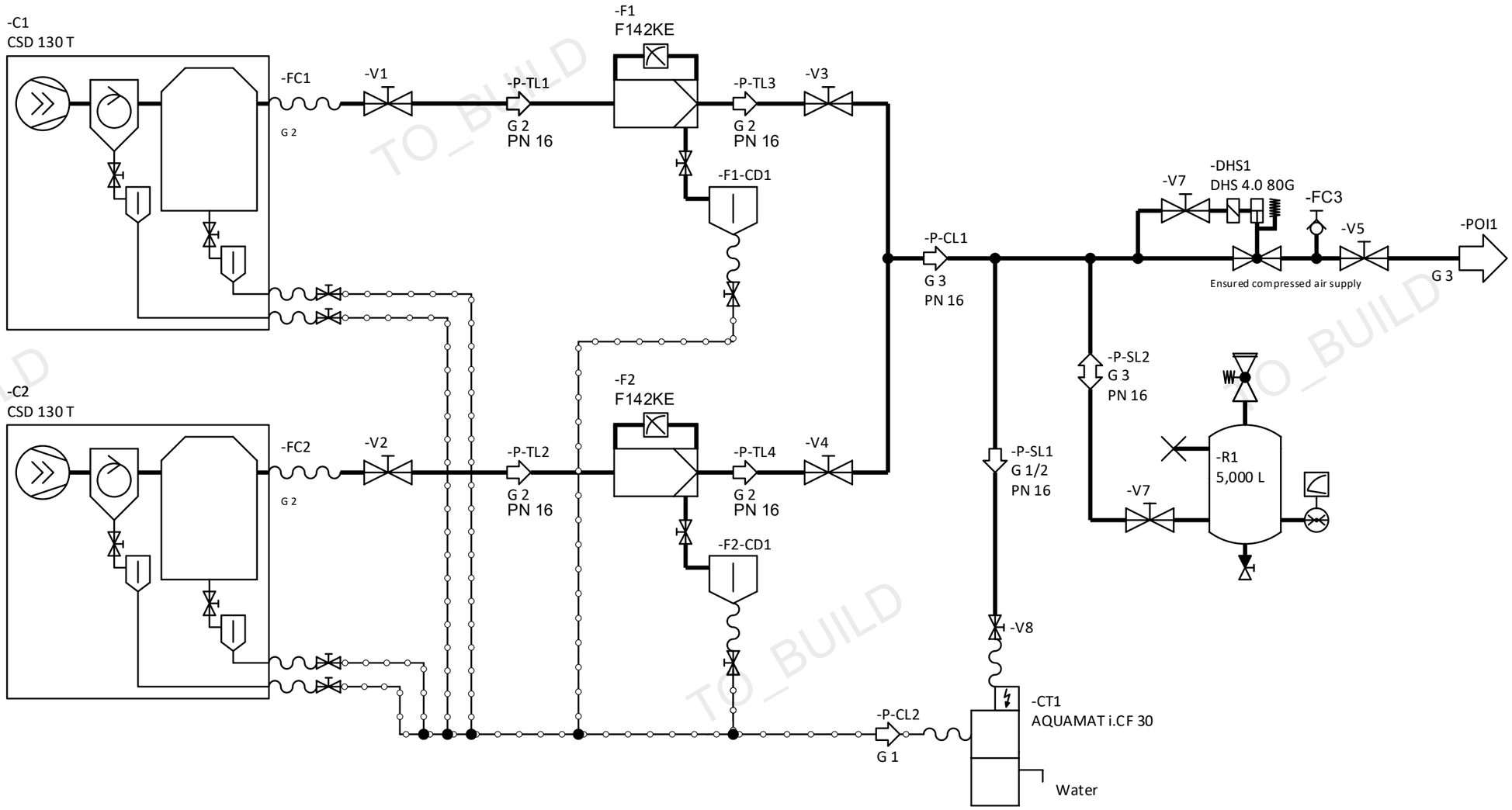
Sample planning sketch
with exhaust air duct /

Oil injected screw compressor
shown: 2x CSD 130 T, 2x F 142 KE /

KAESER KOMPRESSOREN®

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. 30 °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"

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 the below mentioned supplier has no control, the below mentioned supplier assumes no responsibility for compliance with those laws and regulations, whether by way of indemnity, warranty or otherwise.

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.

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.

Project number 00143503			Station setup ID 252795			Station ID 37768
Status TO_BUILD			To build 1			
					Date	Name
				Drawing	12/13/2023	Nahhas1
				Check		Hobusch
				Approval	1/4/2024	Hobusch
01	CAD released	12/21/2023	hobusch	KAESER KOMPRESSOREN		Sample planning sketch with exhaust air duct / Oil injected screw compressor shown: 2x CSD 130 T, 2x F 142 KE /
02	CAD released	1/4/2024	hobusch			P&I diagram Sh. 1 P&I diagram
03	CAD released	1/11/2024	hobusch			Sheet size DIN A3 297 x 420 mm
Rev.	Change	Date	Name	Orig.		Replaces / Replaced by

	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