

## Available executions


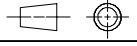
Execution No.	Material ID	Attribute 1: Emmission class (Tier)			
		Tier II without SCR	Tier III HP-SCR on-engine	Tier III HP-SCR off-engine	Tier III LP-SCR off-engine
001	PAAD379239	X		X	X
002	PAAD379240		X		

## NOTE

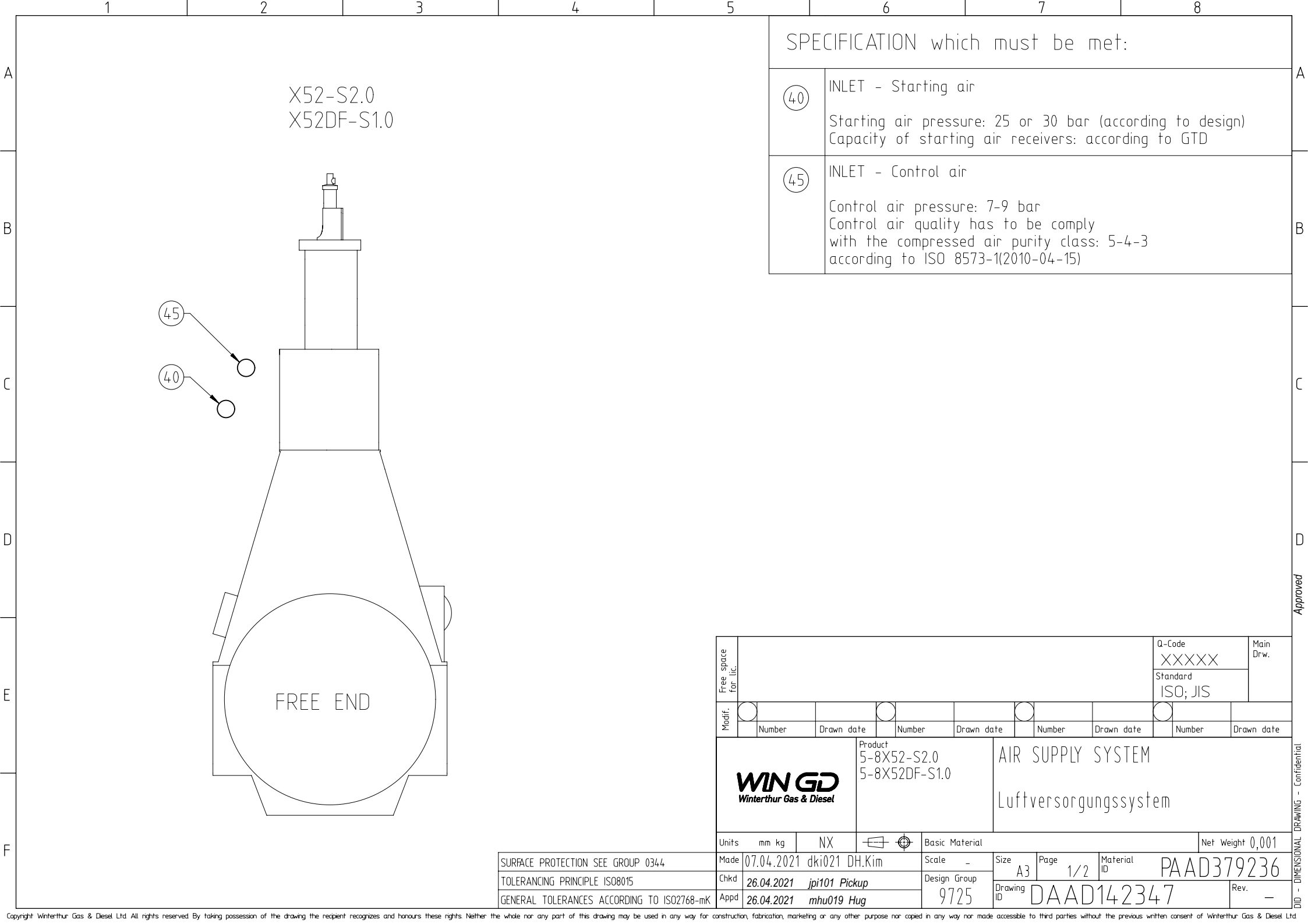
The above executions can be configured using the Engine Configurator.

Detailed guidance for the executions is provided within the Marine Installation Manual (MIM). If a specific execution of interest is not shown in the above table, then it may still be under development or not available. For further information or in case of a project-specific request, WinGD must be contacted directly.

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Prod.	X52-S2.0									
Change History										
	-	sna102	mhu019	24.05.2023	CNAA003753	new Design			-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E C	
 Winterthur Gas & Diesel				AIR SUPPLY SYSTEM MIDS master drawing						
separate BOM available				Dimension						
Scale	-		NX	Units [mm] [kg]		Basic Material		Net Weight		
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				Qty per		A4	Item ID	PTAA025644		
								Drawing Page/s	1/1	

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
1	1	PAAD379236	AIR SUPPLY SYSTEM				0.001
Prod.	5,6,7,8 X52-S2.0						
Change History							
	A	sde101	mhu019	30.04.2021	EAAD096559	Legacy information. See corresponding ChangeNotice	4 3
	-	dki021	mhu019	26.04.2021	EAAD787404	-	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code E C
<div>WIN GD</div> <div>Winterthur Gas &amp; Diesel</div>			AIR SUPPLY SYSTEM PAAD379239				
Bill Of Material			Dimension				
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			Main Design	Yes	Design Group	9725 Q-Code XXXXX	Standard WDS
			Qty per	Engine	A4	Item ID PAAD379239	BOM Page/s 01/01



X52-S2.0  
X52DF-S1.0

45  
40

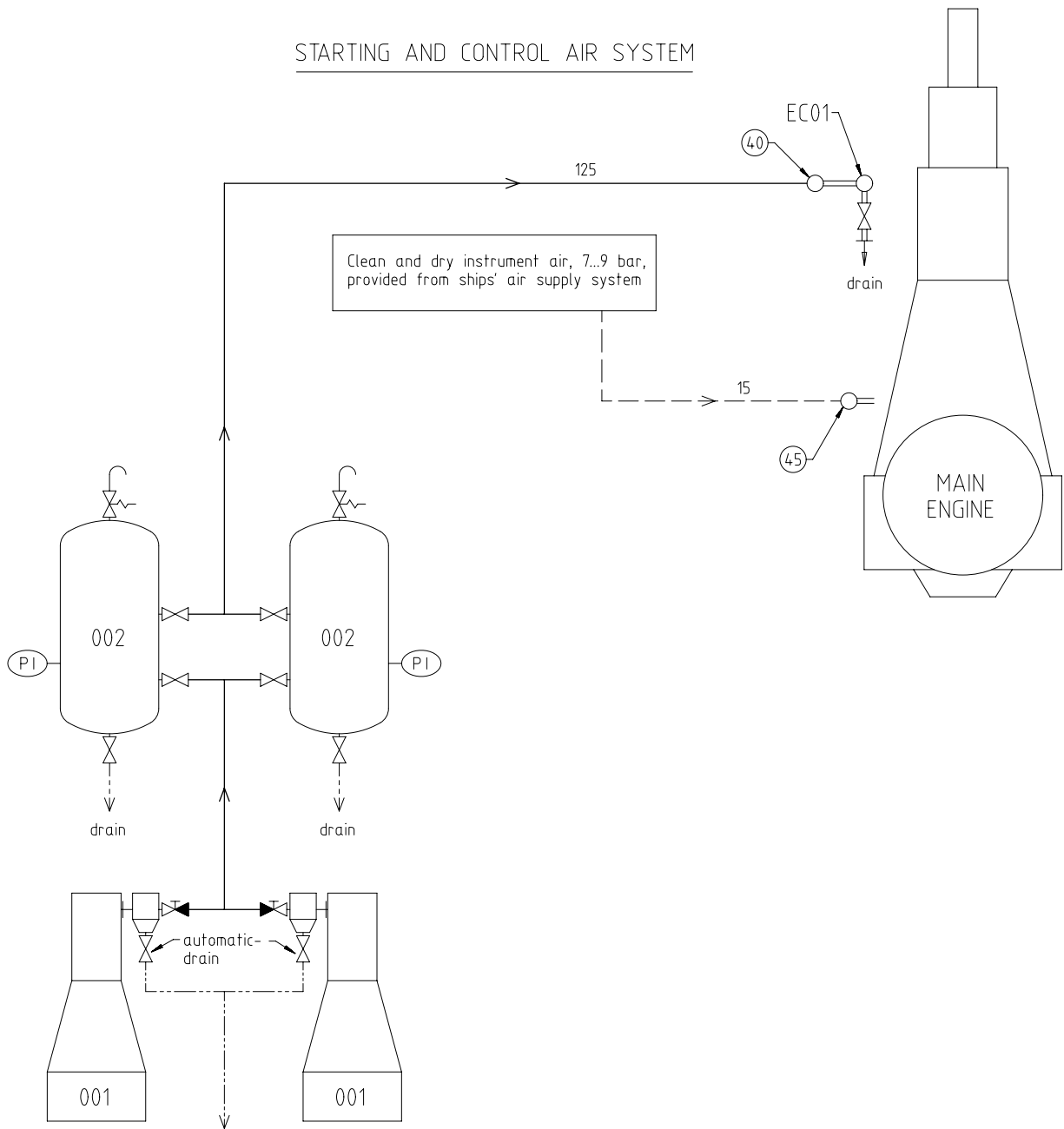
FREE END

SPECIFICATION which must be met:

- ④0 INLET - Starting air  
Starting air pressure: 25 or 30 bar (according to design)  
Capacity of starting air receivers: according to GTD
- ④5 INLET - Control air  
Control air pressure: 7-9 bar  
Control air quality has to be comply with the compressed air purity class: 5-4-3 according to ISO 8573-1(2010-04-15)

Free space for lic.								Q-Code XXXXX	Main Drw.	
								Standard ISO; JIS		
Modif.	①			②			③		④	
	Number	Drawn date		Number	Drawn date		Number	Drawn date		Number
WIN GD Winterthur Gas & Diesel		Product 5-8X52-S2.0 5-8X52DF-S1.0		AIR SUPPLY SYSTEM Luftversorgungssystem						
Units	mm kg	NX		Basic Material				Net Weight 0,001		
SURFACE PROTECTION SEE GROUP 0344		Made	07.04.2021 dki021 DH.Kim		Scale	-		Size	A3	Page
TOLERANCING PRINCIPLE ISO8015		Chkd	26.04.2021 jpi101 Pickup		Design Group	9725		Drawing ID	DAAD142347	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	26.04.2021 mhu019 Hug						Rev.	-

STARTING AND CONTROL AIR SYSTEM



Pos.	System Components *1)
001	Starting air compressor 25/30 bar (capacity according to GTD)
002	Starting air receiver 25/30 bar (capacity according to GTD)

Pos.	Engine Connections *2)
④0	INLET - Starting air
④5	INLET - Control air (for control system and air spring)

Pos.	Engine Components *3)
EC01	Distribution pipe with automatic starting air shut-off valve

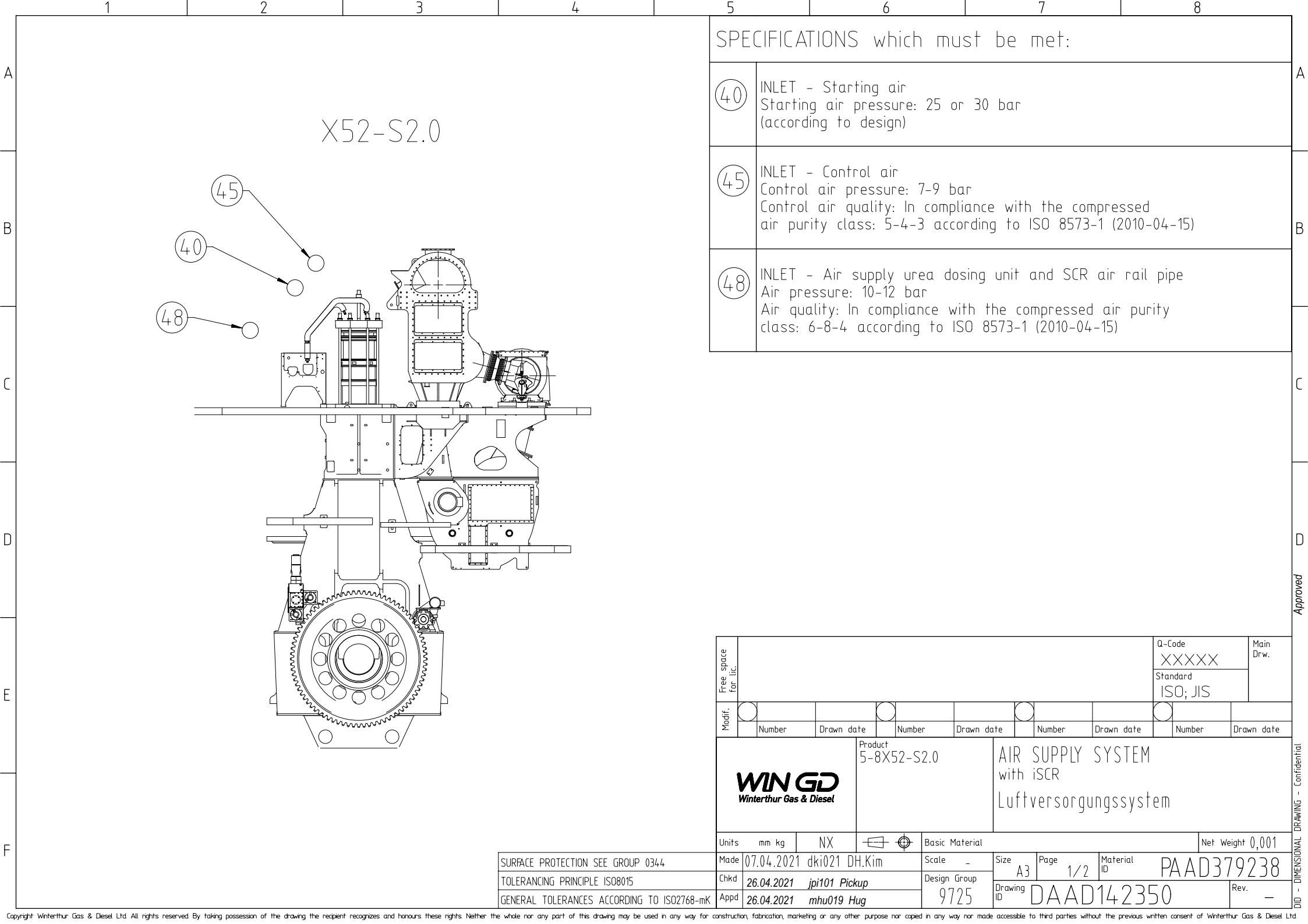
Remarks:

- Drain plugs and drain cocks to be installed where necessary.
- Pipe diameters for starting air compressors and auxiliary equipment according to suppliers recommendations.
- \*1) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.
- \*2) To be delivered by external supplier and to be installed by the shipyard.
- \*3) To be delivered by the engine builder, i.e. already equipped on engine side.

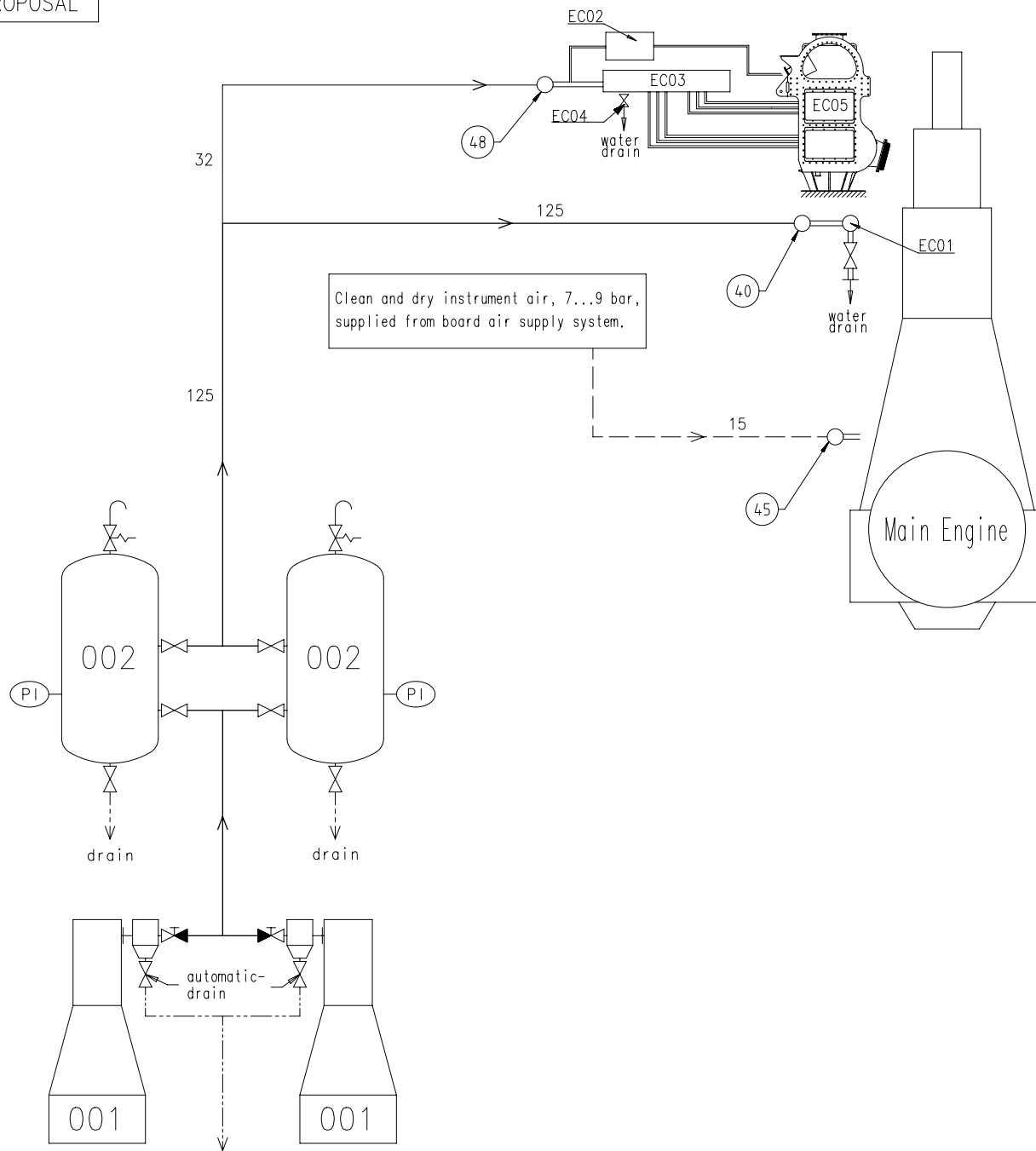
- Starting air feed pipes
- - - Control air pipes
- Ancillary equipment pipes
- - - - - Drain pipes
- ==== Pipes on engine
- Pipe connections

Modif.	Free space for ill.						Q-Code XXXXXX Standard ISO; JIS	Main Drw.
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
WINGD Winterthur Gas & Diesel		Product 5-8X52-S2.0 5-8X52DF-S1.0		AIR SUPPLY SYSTEM Luftversorgungssystem				
Units	mm kg	NX	Basic Material		Net Weight 0,001			
SURFACE PROTECTION SEE GROUP 0344		Made	07.04.2021 dki021 DH.Kim		Scale	-	Size	A2
TOLERANCING PRINCIPLE ISO8015		Chkd	26.04.2021 jpi101 Pickup		Design Group	Page		2/2
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	26.04.2021 mhu019 Hug		9725	Drawing ID	DAAD142347	
						Material ID	PAAD379236	
						Rev.	-	

SEQ NO	QTY	Item ID	Item Name		Dimension	Standard-ID	Basic Material		Net Weight	
2	1	PAAD379238	AIR SUPPLY SYSTEM						0.001	
Prod.	5,6,7,8 X52-S2.0									
Change History										
	A	sde101	mhu019	30.04.2021	EAAD096559	Legacy information. See corresponding ChangeNotice			4 3	
	-	dki021	mhu019	26.04.2021	EAAD787404	-			- -	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis		Activity Code	E C	
<div>WIN GD</div> <div>Winterthur Gas &amp; Diesel</div>				AIR SUPPLY SYSTEM						
				PAAD379240						
Bill Of Material				Dimension						
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				Main Design Yes		Design Group 9725		Q-Code XXXXX	Standard WDS	
				Qty per Engine		A4	Item ID PAAD379240		BOM Page/s 01/01	








# SYSTEM PROPOSAL



Pos	System Components *1)
001	Starting air compressor 25/30 bar (capacity according to GTD)
002	Starting air receiver 25/30 bar (capacity according to GTD)
Pos	Engine Connections *2)
(40)	INLET - Starting air
(45)	INLET - Control air (for control system and air spring)
(48)	INLET - Air urea dosing unit and SCR air rail pipe
Pos	Engine Components *3)
EC01	Distribution pipe with automatic starting air shut-off valve
EC02	Urea dosing unit
EC03	Air rail pipe SCR soot blowing system
EC04	Water drain valve, air rail pipe SCR soot blowing system
EC05	SCR reactor
Remarks	
-Drain plugs and drain cocks to be installed where necessary. -Pipe diameters for starting air compressors and auxiliary equipment according to suppliers recommendations.	
*1) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.	
*2) To be delivered by external supplier and to be installed by the shipyard.	
*3) To be delivered by the engine builder, i.e. already equipoped on engine side	

- Starting air feed pipes
- Control air pipes
- Ancillary equipment pipes
- Drain pipes
- Pipes on engine
- Pipe connections

Free space for lic.							Q-Code XXXXXX		Main Drw.	
							Standard ISO; JIS			
Modif.										
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date		
 Winterthur Gas & Diesel			Product 5-8X52-S2.0		AIR SUPPLY SYSTEM with iSCR Luftversorgungssystem					
Units	mm kg	NX 		Basic Material				Net Weight 0,001		
Made	07.04.2021 dki021 DH.Kim			Scale	-	Size	A2	Page	2/2	
Chkd	26.04.2021 jpi101 Pickup			Design Group		Material ID	PAAD379238			
Appd	26.04.2021 mhu019 Hug			9725		Drawing ID	DAAD142350			
mK									Rev.	-

## MIDS – Air Supply System (DG9725) WinGD X52-S2.0

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2021-05-10	DRAWING SET	First web upload
2023-05-25	PAAD379239 PAAD379240	New drg, revisions

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