DATA SHEET

T 3986 EN

Type 7141 Condensate Vessel

Systems and modules

Application

To collect and store condensate in various applications in process engineering

Function

Condensate vessels are used in applications where the condensate cannot be fed directly back to the boiler feedwater tank. The condensate, which is often discharged from several sources, is collected in the condensate vessel. The condensate in the condensate vessel is reused. For example, it is pumped to the feedwater tank.

The **Type 7141** Condensate Vessel is a customized tank.

Special features

- Turnkey solution with Type 7111 Pump Assembly
- Nominal sizes up to DN 1200
- Rugged and compact design
- Customized versions

Versions

Type 7141 Condensate Vessel for condensate collection and storage

Integrated connections:

– Flanges PN 16 to 40
– Material: stainless steel or non-alloy steel
– Vessel as an open or pressurized tank
– With pressure maintaining system to discharge flash steam through the roof
– With liquid level measurement
– Optionally with manhole
– Combined with a Type 7111 Pump Assembly to create a functional unit (including control unit)

The Type 7111 Pump Assembly is used to pump the condensate to another point in the system and drain the condensate vessel.

For a cost-effective condensate recovery system with integrated pump assembly:

– SAMSON Type 7140, ▸T 3982

For a flash vessel with intensified flash evaporation to safely separate steam and water:

– SAMSON Type 7142, ▸T 3987

Fig. 1: *Type 7141 Condensate Vessel*

SAMSON AKTIENGESELLSCHAFT · Weismüllerstraße 3 · 60314 Frankfurt am Main, Germany
Phone: +49 69 4009-0 · Fax: +49 69 4009-1507
samson@samsongroup.com · www.samsongroup.com

Edition August 2023

RFQ Form for Type 7141 Condensate Vessel

Customer data	
Company	
Address	
Name	
Phone number	
E-mail	

Send your inquiry to your regional SAMSON contact or e-mail it to ▶ systems-de@samsongroup.com

Operating data		
Constant condensate mass flow rate	m1 =	kg/h
Intermittent condensate mass flow rate	m2 =	kg/h
Max. peak load	m3 =	kg/h
Tank size	Diameter =	m
	Height =	m
Tank pressure	P_1	bar (g)

Version					
Material	☐ P235GH	☐ 1.4541	☐ 1.4571	☐	
Condensate connections	N1	☐ Top	☐ Side	DN/PN	
	N2	☐ Top	☐ Side	DN/PN	
	N3	☐ Top	☐ Side	DN/PN	
	N4	☐ Top	☐ Side	DN/PN	
	N5	☐ Top	☐ Side	DN/PN	
Manhole	☐ No	☐ Yes	DN/PN		
Liquid level measurement	☐ Level switches without magnetic level indicator				
	☐ Magnetic level indicator with level switches				
	☐ Magnetic level indicator with 4 to 20 mA signal				
	☐ Radar measurement				
Type 7111 Pump Assembly	☐ No	☐ Yes (fill out RFQ form ▶ T 3973)			

Notes