

## Data sheet

**Description:** Separator  
**Type:** BKI 45-86-572  
**Machine-No.:** 1738-410  
**Order-No.:** 1451907193/052000

**Material-No.:** 99870461675  
**Version:** 11.03.2020

**ORIGINAL DOCUMENT**

The authors are always grateful for remarks and suggestions for improving the documentation. Remarks and suggestions can be sent to:

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### Preface to this datasheet

This datasheet contains the order-specific technical data for the centrifuge.



Non-compliance with this datasheet can not only result in danger for centrifuges, material and the environment but also endanger persons working on or in the vicinity of the centrifuge.

### The technical data from this datasheet have sole validity!

Technical data in the centrifuge documentation which deviate from this are invalid.

- Keep the datasheet complete, close to the centrifuge and accessible to all those working on or with the centrifuge. It must be available to these people at all times!

### Other applicable documents


The documents below apply in addition to this datasheet.

- Operating instructions for the centrifuge
- Dimensions sheet for the centrifuge
- Operating instructions for components made by other manufacturers

### Abbreviations and symbols used

bar (g)	bar (g = pressure)
approx.	approximately (roughly)
dB (A)	decibels (A)
f	frequency
FU	frequency converter (Frequenzumrichter)
Hz	Hertz
I/O	switch on/off
kg/dm <sup>3</sup>	kilogrammes per cubic decimetre
kW	kilowatts
l	litres
l/h	litres per hour
max.	maximum
min.	minimum
min	minute
rpm	revolutions per minute
mm/s RMS	millimetres per second, RMS (= Root Mean Square)
mW	milliwatts
m <sup>3</sup> /h	cubic metres per hour
sec	second
V	volts
°C	degrees Celsius
%	per cent
Y	star
Δ	delta

Centrifuge			
			Comments
Type	BKI 45-86-572		
Serial no.	1738-410		
Year of construction	see centrifuge nameplate		
Permitted bowl speed	rpm	5600	
Permitted density of feed material	kg/dm <sup>3</sup>	1,2	max.
Permitted density of heavy liquid	kg/dm <sup>3</sup>	1,0	max.
Permitted density of solids	kg/dm <sup>3</sup>	1,2	max.
Permitted throughput	m <sup>3</sup> /h	0,78/1,2	min. / max.
Permitted temperature of feed material	°C	1/20	min. / max.
Permitted housing pressure range	bar (g)	0/0,3	min. / max.
Permitted operating speed range	rpm	-/-	min. / max.
Filling volume of bowl	l	63	approx.
Starting time	min	15	approx.
Run-down time without braking	min	180	
Permitted vibration velocity	mm/s RMS	7	max. Measuring point on frame
Ambient temperature	°C	5/20	min. / max.
Sound pressure level	dB (A)	75	DIN EN ISO 3746
Sound power level	mW	4,0	DIN EN ISO 3746
Quantity of lubricating oil	l	7,5	approx.
Lubricating oil pump, external	rpm	3000	I/O

Ex range of centrifuge			
			Comments
Suitable for operation in an "Ex" area		Yes	yes / no
Ex code	 FIT FOR CLASS I, ZONE 2		Directive 2014/34/EC DIN EN ISO 80079-36 / -37
Ignition category (temperature class)		T2	Max. permitted surface temperature
Inert gas blanketing required		Yes	yes / no

Main drive motor			
			Comments
Design	IM 5210 (IM V3)		
Capacity	kW	22	
Voltage	V	379	For wiring, see motor rating plate
Frequency	Hz	181	
Starting mode	Normal starting		
Enclosure		IP00	
Frequency converter - set frequency	Hz	188/188	min. / max.

Motor lubricating oil unit			
			Comments
Design		IM B34	
Capacity	kW	0,145	
Voltage	V	440-480	For wiring, see motor rating plate
Frequency	Hz	60	
Enclosure		IP55	

Process data			
			Comments
Intended use, feed material	Human blood plasma / cryoprecipitate		
Designation of light liquid	Human blood plasma		
Permitted operating pressure, light liquid	bar (g)	3,8	Water at nominal output
Max. discharge pressure (clarifier)	bar (g)	12	

Boilerplate			
			Comments
<b>Cover (cooling jacket)</b>			
Permitted operating pressure	bar (g)	0/2,5	min. / max.
Pressurized space capacity	m <sup>3</sup>	0,006	
Operating temperature	°C	-20/30	min. / max.

Boilerplate			
			Comments
<b>Solids trap (cooling jacket)</b>			
Permitted operating pressure	bar (g)	0/10	min. / max.
Pressurized space capacity	m <sup>3</sup>	0,0032	
Operating temperature	°C	-35/30	min. / max.



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