



designed for scientists



HABITAT ferment dw 5

/// Data Sheet

The 5 l vessel package for the bioreactor HABITAT research contains a 5 l double-walled glass vessel for fermentation applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT ferment) you receive all necessary components for a successful cultivation. For temperature control via the double jacket we recommend one of our circulators such as the HRC 2 basic or control.



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Technical Data

Reactor	Fermenter
Volume [l]	5
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	160
Ratio = height / inner diameter	2.31
Useable volume min. [l]	1.0
Useable volume max. [l]	6.7
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	4.76
Net weight reactor assembled [kg]	16.66
Number lid ports	145
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	4
Lid ports (Condenser)	1
Lid ports (Cooling Finger)	1
Lid ports (Inoculation)	1
Lid ports (Harvest Pipe)	1
Lid ports (Sparger)	1
Lid ports (Feed)	0
Lid ports (4in1)	1
Lid ports (Temperature)	1
Lid ports (DO)	1
Lid ports (Level)	1
Material in contact with medium	AISI 316L, borosilicate glass 3.3, silicone USP class VI
Motor coupling	shaft feedthrough
Harvest pipe outer diameter [mm]	6
Harvest pipe inner diameter	4
Harvest pipe design	straight
Harvest pipe, height adjustable	yes
Feeding port, outer diameter [mm]	4.5
Feeding port, inner diameter [mm]	2
Feeding port, amount	4
Inoculation port, outer diameter [mm]	6
Inoculation port, inner diameter [mm]	4
Sparger	Ring sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	500
Cooling finger	yes
Cooling finger connection thread [mm]	M27x3
Cooling finger water connection, outer diameter [mm]	8
Stirrer design	Propeller stirrer, 6-bladed
Stirrer diameter 6 blade impeller [mm]	57
Ratio = stirrer diameter 6blade / inner diameter reactor	0.36



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Stirrer quantity	2
Condenser	yes
Condenser, connection thread	M16x2
Type of cooling	Vertical condenser
Condenser Temperature min. [°C]	5
Temperature min. / Condenser with Peltier [°C]	15
Temperature min. / Condenser with water cooling [°C]	5
Filtertype	sterile filter
Filtermaterial	PTFE reinforced with PP
Filter housing material	PP
Pore size [µm]	0.22
Filter heater	yes
Spin filter [µm]	40
Baffle	Accessory
Temperature measuring	yes
Working temperature sensor	PT1000
pH sensor	yes
pH sensor connection thread	PG 13.5
pO2 sensor	yes
pO2 sensor connection thread	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Speed max. [rpm]	1500
Dimensions (W x H x D) [mm]	260 x 605 x 260