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HABITAT cell sw 0.5

/// Data Sheet

The 0,5 l vessel package for the bioreactor HABITAT research contains a 0,5 l single-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) you receive all necessary components for a successful cultivation.



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Technical Data

Reactor	Cell Growth
Volume [l]	0.5
Type	single wall
Heating blanket	yes
Heating sleeve voltage [V]	48
Heating sleeve power [W]	75
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	90
Ratio = height / inner diameter	1.67
Useable volume min. [l]	0.25
Useable volume max. [l]	0.8
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	0.34
Net weight reactor assembled [kg]	6.4
Number lid ports	10
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	0
Lid ports (Condenser)	1
Lid ports (Cooling Finger)	0
Lid ports (Inoculation)	0
Lid ports (Harvest Pipe)	1
Lid ports (Sparger)	1
Lid ports (Feed)	2
Lid ports (4in1)	0
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
Sparger	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	34
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.38
Stirrer quantity	1
Condenser	yes



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Condenser, connection threat	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
Baffle	Accessory
Temperature measuring	yes
Working temperature sensor	PT1000
pH sensor	yes
pH sensor connection threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 1400
Heat control	Touch display
Dimensions (W x H x D) [mm]	185 x 365 x 185



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HABITAT cell dw 0.5

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The 0.5 l vessel package for the bioreactor HABITAT research contains a 0.5 l double-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) 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 basic or control.



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Technical Data

Reactor	Cell Growth
Volume [l]	0.5
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	90
Ratio = height / inner diameter	1.67
Useable volume min. [l]	0.25
Useable volume max. [l]	0.8
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	0.71
Net weight reactor assembled [kg]	6.77
Number lid ports	10
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	0
Lid ports (Condenser)	1
Lid ports (Cooling Finger)	0
Lid ports (Inoculation)	0
Lid ports (Harvest Pipe)	1
Lid ports (Sparger)	1
Lid ports (Feed)	2
Lid ports (4in1)	0
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Sparger	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	34
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.38
Stirrer quantity	1
Condenser	yes
Condenser, connection threat	M16x2
Type of cooling	Vertical condenser
Condenser Temperature min. [°C]	5



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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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 1400
Dimensions (W x H x D) [mm]	185 x 365 x 185



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HABITAT cell sw 1

/// Data Sheet

The 1 l vessel package for the bioreactor HABITAT research contains a 1 l single-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) you receive all necessary components for a successful cultivation.



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Technical Data

Reactor	Cell Growth
Volume [l]	1
Type	single wall
Heating blanket	yes
Heating sleeve voltage [V]	48
Heating sleeve power [W]	100
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	110
Ratio = height / inner diameter	1.73
Useable volume min. [l]	0.3
Useable volume max. [l]	1.6
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	0.92
Net weight reactor assembled [kg]	7.87
Number lid ports	12
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	2
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	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	41
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.37



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Stirrer quantity	1
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 2000
Dimensions (W x H x D) [mm]	210 x 415 x 210



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HABITAT cell dw 1

/// Data Sheet

The 1 l vessel package for the bioreactor HABITAT research contains a 1 l double-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) 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	Cell Growth
Volume [l]	1
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	110
Ratio = height / inner diameter	1.73
Useable volume min. [l]	0.3
Useable volume max. [l]	1.6
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	1.14
Net weight reactor assembled [kg]	8.09
Number lid ports	12
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	2
Lid ports (Condenser)	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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [mm]	6
Inoculation port, inner diameter [mm]	4
Sparger	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	41
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.37
Stirrer quantity	1
Condenser	yes
Condenser, connection threat	M16x2
Type of cooling	Vertical condenser



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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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 2000
Dimensions (W x H x D) [mm]	210 x 414 x 210



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HABITAT cell sw 2

/// Data Sheet

The 2 l vessel package for the bioreactor HABITAT research contains a 2 l single-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) you receive all necessary components for a successful cultivation.



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Technical Data

Reactor	Cell Growth
Volume [l]	2
Type	single wall
Heating blanket	yes
Heating sleeve voltage [V]	48
Heating sleeve power [W]	160
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	130
Ratio = height / inner diameter	2
Useable volume min. [l]	0.6
Useable volume max. [l]	3.0
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	1.42
Net weight reactor assembled [kg]	9.11
Number lid ports	14
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	3
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	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Cooling finger	Accessory
Cooling finger connection thread [mm]	M27x3
Cooling finger water connection, outer diameter [mm]	8



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Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	49
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.38
Stirrer quantity	1
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 2200
Heating blanket	Accessory
Heat output [W]	160
Dimensions (W x H x D) [mm]	230 x 490 x 230



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HABITAT cell dw 2

/// Data Sheet

The 2 l vessel package for the bioreactor HABITAT research contains a 2 l double-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) 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	Cell Growth
Volume [l]	2
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	130
Ratio = height / inner diameter	2
Useable volume min. [l]	0.6
Useable volume max. [l]	3.0
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	2.86
Net weight reactor assembled [kg]	10.55
Number lid ports	14
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	3
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	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Cooling finger	Accessory
Cooling finger connection thread [mm]	M27x3
Cooling finger water connection, outer diameter [mm]	8
Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	49
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.38



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Stirrer quantity	1
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 2200
Dimensions (W x H x D) [mm]	230 x 490 x 230



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HABITAT cell sw 5

/// Data Sheet

The 5 l vessel package for the bioreactor HABITAT research contains a 5 l single-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) you receive all necessary components for a successful cultivation.



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Technical Data

Reactor	Cell Growth
Volume [l]	5
Type	single wall
Heating blanket	yes
Heating sleeve voltage [V]	48
Heating sleeve power [W]	250
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]	2.36
Net weight reactor assembled [kg]	13.29
Number lid ports	15
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	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Cooling finger	Accessory
Cooling finger connection thread [mm]	M27x3
Cooling finger water connection, outer diameter [mm]	8



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Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	59
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.37
Stirrer quantity	2
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 1500
Heating blanket	yes
Heat output [W]	250
Dimensions (W x H x D) [mm]	260 x 605 x 260



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HABITAT cell dw 5

/// Data Sheet

The 1 l vessel package for the bioreactor HABITAT research contains a 1 l single-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) you receive all necessary components for a successful cultivation.



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Technical Data

Reactor	Cell Growth
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]	4.73
Net weight reactor assembled [kg]	15.66
Number lid ports	15
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	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Cooling finger	Accessory
Cooling finger connection thread [mm]	M27x3
Cooling finger water connection, outer diameter [mm]	8
Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	59
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.37



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Stirrer quantity	2
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 1500
Dimensions (W x H x D) [mm]	260 x 605 x 260



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HABITAT cell dw 10

/// Data Sheet

The 10 l vessel package for the bioreactor HABITAT research contains a 10 l double-walled glass vessel for cell culture applications as well as the appropriate stirring drive. Together with the separately available control tower package (e.g. HABITAT cell) 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	Cell Growth
Volume [l]	10
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	190
Ratio = height / inner diameter	2.47
Useable volume min. [l]	2.0
Useable volume max. [l]	12.9
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	7.65
Net weight reactor assembled [kg]	21.9
Number lid ports	18
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	7
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [mm]	6
Inoculation port, inner diameter [mm]	4
Sparger	Micro sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	5
Cooling finger	Accessory
Cooling finger connection threat [mm]	M27x3
Cooling finger water connection, outer diamter [mm]	8
Stirrer design	Centrifugal stirrer, 2-bladed
Stirrer diameter 3 pitchblade [mm]	69
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.36



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Stirrer quantity	2
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 800
Dimensions (W x H x D) [mm]	300 x 710 x 300



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HABITAT ferment dw 0.5

/// Data Sheet

The 0,5 l vessel package for the bioreactor HABITAT research contains a 0,5 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 cell) 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 basic or control.



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Technical Data

Reactor	Fermenter
Volume [l]	0.5
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	90
Ratio = height / inner diameter	1.67
Useable volume min. [l]	0.25
Useable volume max. [l]	0.8
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	0.71
Net weight reactor assembled [kg]	6.77
Number lid ports	10
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	0
Lid ports (Condenser)	1
Lid ports (Cooling Finger)	0
Lid ports (Inoculation)	0
Lid ports (Harvest Pipe)	1
Lid ports (Sparger)	1
Lid ports (Feed)	2
Lid ports (4in1)	0
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Sparger	Ring sparger
Sparger, outer diameter [mm]	8
Sparger, inner diameter [mm]	6
Sparger pore size [µm]	500
Stirrer design	Propeller stirrer, 6-bladed
Stirrer diameter 6 blade impeller [mm]	33
Ratio = stirrer diameter 6blade / inner diameter reactor	0.37
Stirrer quantity	1
Condenser	yes
Condenser, connection threat	M16x2
Type of cooling	Vertical condenser
Condenser Temperature min. [°C]	5



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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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 1400
Dimensions (W x H x D) [mm]	185 x 365 x 185



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HABITAT ferment dw 1

/// Data Sheet

The 1 l vessel package for the bioreactor HABITAT research contains a 1 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]	1
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	110
Ratio = height / inner diameter	1.73
Useable volume min. [l]	0.3
Useable volume max. [l]	1.6
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	1.14
Net weight reactor assembled [kg]	8.09
Number lid ports	12
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	2
Lid ports (Condenser)	1
Lid ports (Cooling Finger)	0
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [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
Stirrer design	Propeller stirrer, 6-bladed
Stirrer diameter 6 blade impeller [mm]	40
Ratio = stirrer diameter 6blade / inner diameter reactor	0.36
Stirrer quantity	1
Condenser	yes
Condenser, connection threat	M16x2



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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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 2000
Dimensions (W x H x D) [mm]	210 x 415 x 210



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HABITAT ferment sw 2

/// Data Sheet

The 2 l vessel package for the bioreactor HABITAT research contains a 2 l single-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. The scope of delivery of the HABITAT ferment 2 and 5 l vessels includes a cooling finger for temperature control / cooling in the medium. We recommend its use in conjunction with one of our chillers, such as the RC 2 lite.



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Technical Data

Reactor	Fermenter
Volume [l]	2
Type	single wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	130
Ratio = height / inner diameter	2
Useable volume min. [l]	0.6
Useable volume max. [l]	3.0
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	1.42
Net weight reactor assembled [kg]	9.11
Number lid ports	14
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	3
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [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 threat [mm]	M27x3
Cooling finger water connection, outer diamter [mm]	8
Stirrer design	Propeller stirrer, 6-bladed
Stirrer diameter 6 blade impeller [mm]	48
Ratio = stirrer diameter 6blade / inner diameter reactor	0.37



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Stirrer quantity	1
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 2200
Dimensions (W x H x D) [mm]	230 x 490 x 230



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HABITAT ferment dw 2

/// Data Sheet

The 2 l vessel package for the bioreactor HABITAT research contains a 2 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]	2
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	130
Ratio = height / inner diameter	2
Useable volume min. [l]	0.6
Useable volume max. [l]	3.0
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	2.86
Net weight reactor assembled [kg]	10.55
Number lid ports	14
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	3
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [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	Accessory
Cooling finger connection threat [mm]	M27x3
Cooling finger water connection, outer diamter [mm]	8
Stirrer design	Propeller stirrer, 6-bladed
Stirrer diameter 6 blade impeller [mm]	48
Ratio = stirrer diameter 6blade / inner diameter reactor	0.37



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Stirrer quantity	1
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 2200
Dimensions (W x H x D) [mm]	230 x 490 x 230



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HABITAT ferment sw 5

/// Data Sheet

The 5 l vessel package for the bioreactor HABITAT research contains a 5 l single-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. The scope of delivery of the HABITAT ferment 2 and 5 l vessels includes a cooling finger for temperature control / cooling in the medium. We recommend its use in conjunction with one of our chillers, such as the RC 2 lite.



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Technical Data

Reactor	Fermenter
Volume [l]	5
Type	single 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]	2.36
Net weight reactor assembled [kg]	13.29
Number lid ports	15
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [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 threat [mm]	M27x3
Cooling finger water connection, outer diamter [mm]	8
Stirrer design	Propeller stirrer, 6-bladed
Stirrer diameter 6 blade impeller [mm]	57
Ratio = stirrer diameter 3 blade / inner diameter reactor	0.36



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Stirrer quantity	2
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 1500
Dimensions (W x H x D) [mm]	260 x 605 x 260



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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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [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 threat [mm]	M27x3
Cooling finger water connection, outer diamter [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 threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 1500
Dimensions (W x H x D) [mm]	260 x 605 x 260



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HABITAT ferment dw 10

/// Data Sheet

The 10 l vessel package for the bioreactor HABITAT research contains a 10 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]	10
Type	double wall
Multi use	yes
Autoclavable	yes
Inner diameter [mm]	190
Ratio = height / inner diameter	2.47
Useable volume min. [l]	2.0
Useable volume max. [l]	12.9
Reactor vessel material	borosilicate glass
Reactor lid material	stainless steel 1.4404
Net weight reactor vessel [kg]	7.65
Net weight reactor assembled [kg]	21.9
Number lid ports	18
Lid ports (Baffle)	1
Lid ports (pH)	1
Lid ports (Reserve)	7
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 diamter [mm]	4.5
Feeding port, inner diamter [mm]	2
Feeding port, amount	4
Inoculation port, outer diamter [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	Accessory
Cooling finger connection threat [mm]	M27x3
Cooling finger water connection, outer diamter [mm]	8
Stirrer design	Propeller stirrer, 6-bladed
Stirrer diameter 6 blade impeller [mm]	68
Ratio = stirrer diameter 6blade / inner diameter reactor	0.36



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Stirrer quantity	2
Condenser	yes
Condenser, connection threat	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 threat	PG 13.5
pO2 sensor	yes
pO2 sensor connection threat	PG 13.5
Level sensor	IKA HA.s.lv
Foam sensor	IKA HA.s.fo
Turbidity sensor	Accessory
Conductivity sensor	Accessory
CO2 sensor	Accessory
Stirring motor	yes
Speed range [rpm]	1 - 800
Dimensions (W x H x D) [mm]	300 x 710 x 300