

designed for scientists



HABITAT ferment sw 5

/// Data Sheet

The 5 I vessel package for the bioreactor HABITAT research contains a 5 I 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 I 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

| Volume | Reactor | Fermenter |
|--|--|--|
| Type single wall Mubil use yes Autoclavable yes Inner dameter [mm] 160 Rato = height / Inner diameter 2.31 Useable volume min. [I] 1.0 Useable volume max. [I] 6.7 Reactor vessel material borosilicate glass Reactor washerial stainless steel 1.4404 Net weight reactor assembled [kg] 13.29 Number lid ports 15 Lid ports (Baffle) 1 Lid ports (Reactor assembled [kg]) 13.29 Number lid ports 15 Lid ports (Reactor assembled [kg]) 13.29 Number lid ports 1 Lid ports (Reactor assembled [kg]) 1 Lid ports (Feed) 1 Lid ports (Feed) | | |
| Multi use yes Autoclavable yes Inner diameter [mm] 160 Ratio = height / Inner diameter 2.31 Useable volume max. [I] 6.7 Useable volume max. [I] 6.7 Reactor lor Material borosilicate glass Reactor lor Material stainless steel 1.4004 Net weight reactor vessel [kg] 2.36 Net weight reactor assembled [kg] 13.29 Number lid ports 15 Lid ports (paffle) 1 Lid ports (paffle) 1 Lid ports (Condenser) 4 Lid ports (Condenser) 1 Lid ports (Ferey) 1 Lid ports (Ferey Particle) 1 Lid ports (Ferey Particle) 1 | | single wall |
| Autocavable yes 160 16 | | |
| Inner diameter [mm] | Autoclavable | |
| Ration Alight Finner diameter | | |
| Useable volume min. | | |
| Useable volume max. | | |
| 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 (Enewer) 4 Lid ports (Condenser) 1 Lid ports (Condenser) 1 Lid ports (Inoculation) 1 Lid ports (Inoculation) 1 Lid ports (Inoculation) 1 Lid ports (Feed) 0 Lid ports (Feed) 0 Lid ports (Feed) 1 Lid ports (Temperature) 1 Lid ports (Temperature) 1 Lid ports (Level) 1 Material in contact with medium AISI 316L, borosilicate glass 3.3, silicone USP class VI Material in contact with medium AISI 316L, borosilicate glass 3.3, silicone USP class VI Harvest pipe outer diameter [mm] 6 Harvest pipe design straight Harvest pipe design straight Harvest pipe, height adjustable yes< | | |
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| Inoculation port, inner diameter [mm] Sparger Sparger, outer diameter [mm] Sparger, inner diameter [mm] Sparger pore size [µm] Cooling finger Cooling finger connection threat [mm] Stirrer design Stirrer diameter 6 blade impeller [mm] Aling sparger Ring sparger 8 8 8 M27 M27 M27 M27 M27 M27 | Feeding port, amount | 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 | Inoculation port, outer diamter [mm] | 6 |
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| Stirrer design Propeller stirrer, 6-bladed Stirrer diameter 6 blade impeller [mm] 57 | Cooling finger water connection, outer diamter [mm] | 8 |
| Stirrer diameter 6 blade impeller [mm] 57 | | Propeller stirrer, 6-bladed |
| Ratio = stirrerdiameter 3 blade / inner diameter reactor 0.36 | Stirrer diameter 6 blade impeller [mm] | 57 |
| | Ratio = stirrerdiameter 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 |
| Speed max. [rpm] | 1500 |
| Dimensions (W x H x D) [mm] | 260 x 605 x 260 |



