

Cooled Incubator 200 - 400 L

Parameter	Requirement	Criticality	a	Score	Criticality x Score	b	Score	Criticality x Score
Image								
Local Distributor	Available		PT ITS Science Indonesia			PT. GeneCraft Labs		
Brand	N/A		Memmert			Binder		
Type	N/A		IPP410Eco Plus			KB ECO 400		
Indent Time	N/A		+/- 3 months			2-3 months		
Price (Before tax, based on Quotation)	N/A		IDR 282.940.000			IDR 287.090.160		
Capacity	200 - 400 L	2	384 L	1	2	400 L	1	2
Dimension WDH	NMT 125 cm x 100 cm x 150 cm	1	824 x 655 x 1720 mm	1	1	925 x 796 x 1946 mm	1	1
Temperature setting	+15 to 70 C	3	0 to 70 C	1	3	0 to 70 C	1	3
Temperature resolution	0,1 C	3	0,1 C	1	3	0,1 C	1	3
Working temp	20 - 25 C	2	Comply	1	2	Comply	1	2
Timer	Available	1	Available	1	1	Available	1	1
Data logger/retrieval	Yes, with USB or other method	3	Yes. With USB	1	3	Yes. With USB	1	3
Convection	Forced ventilation is preferable	2	forced ventilation by Peltier fan	1	2	Forced ventilation	1	2
Weight	NMT 250 kg	1	139 kg	1	1	196 kg	1	1
Castor	Available, lockable	1	Available, lockable	1	1	Available, lockable	1	1
Tray	No less than 4	1	4	1	1	2 + 2 additional	1	1
Door	Fully insulated Stainless Steel	2	Fully insulated SS door with 2 point locking + Inner glass door	1	2	Fully insulated SS door with 2 point locking + Inner glass door	1	2
Self adjustment (internal calibration)	Available	3	Available	1	3	Available	1	3
Data file	Uneditable (e.g., pdf)	3	Excel, PDF	0	0	Excel, PDF	0	0
IQ OQ	Included	3	Included	1	3	Included	1	3
Calibration	Included	3	Included	1	3	Included	1	3
CSV	Included	2	Not available	0	0	Not available	0	0
Total Score			31			31		
Remark		N/A	Harga yang dicantumkan mencakup unit, kalibrasi, IQ OQ, serta access port with silicone plug (untuk jalur sensor kalibrasi/kualifikasi). Terdapat biaya tambahan untuk software penarikan data (APT-COM™ 4 BASIC Edition: for simple logging and documentation requirements with up to 5 networked units) sebesar IDR 7,182,000 yang dapat digunakan hingga 5 inkubator					

Conclusion:
 Kedua incubator memiliki spesifikasi yang comparable. Keduanya tidak sepenuhnya dapat memenuhi kebutuhan data file (excel dapat diedit), namun hal tersebut dapat diatasi dengan SOP internal. Keduanya juga tidak dapat menyediakan jasa CSV. Akan tetapi, secara umum spesifikasi keduanya sudah cukup baik dan dapat memenuhi kebutuhan. **Dengan demikian, pembelian dapat didasarkan pada harga terendah**

Dibuat oleh,

 Diny Lucyanie
 Quality Manager

Disetujui oleh,

 Dyah Arum M.
 Site Head

Note	Criticality	3	High
		2	Medium
		1	Low
	Compliance Score	1	Meet specification
		0	Not meet specification

Incubator 250 - 500 L

Parameter	Requirement	Criticality	a	Score	Criticality x Score	b	Score	Criticality x Score
Image								
Local Distributor	Available		PT ITS Science Indonesia			PT. GeneCraft Labs		
Brand	N/A		Memmert			Binder		
Type	N/A		IN260 Plus			BD 260		
Indent Time	N/A		+/- 3 months			2-3 months		
Price (Before tax, based on Quotation)	N/A		IDR 148.911.000			IDR 102.858.960		
Capacity	250 - 500 L	2	256 L	1	2	256 L	1	2
Dimension WDH	NMT 125 cm x 100 cm x 150 cm	1	824 x 684 x 1183 mm	1	1	810 x 760 x 940 mm	1	1
Temperature setting	Ambient + 5 to 80 C or higher	3	Ambient + 5 to 80 C	1	3	RT + 5 to 100 C	1	3
Temperature resolution	0,1 C	3	0,1 C	1	3	0,1 C	1	3
Working temp	30-35 C	2	Comply	1	2	Comply	1	2
Timer	Available	1	Available	1	1	Available	1	1
Data logger/retrieval	Yes, with USB or other method	3	Yes, with USB	1	3	Yes, with USB	1	3
Convection	Forced ventilation is preferable	1	Natural force	0	0	Natural force	0	0
Weight	NMT 250 kg	1	110 kg	1	1	85 kg	1	1
Tray	No less than 4	1	3 + 1 additional shelf	1	1	2 + 2 additional shelf	1	1
Door	Fully insulated Stainless Steel	2	fully insulated stainless steel door with 2 point locking (compression door lock) + inner glass door	1	2	fully insulated stainless steel door with inner glass door	1	2
Self adjustment (internal calibration)	Available	3	Available	1	3	Available	1	3
Data file	Uneditable (e.g., pdf)	3	PDF, excel	0	0	PDF, excel	0	0
IQ OQ	Included	3	Included	1	3	Included	1	3
Calibration	Included	3	Included	1	3	Included	1	3
CSV	Included	2	Not available	0	0	Not available	0	0
Total Score			28			28		
Remark			N/A			Harga yang dicantumkan mencakup unit, kalibrasi, IQ OQ, serta access port with silicone plug (untuk jalur sensor saat kualifikasi). Terdapat biaya tambahan untuk software penarikan data (APT-COM™ 4 BASIC Edition: for simple logging and documentation requirements with up to 5 networked units) sebesar IDR 7,182,000 yang dapat digunakan hingga 5 inkubator		

Conclusion:
 Kedua incubator memiliki spesifikasi yang comparable. Keduanya tidak sepenuhnya dapat memenuhi kebutuhan data file (excel dapat diedit), namun hal tersebut dapat diatasi dengan SOP internal. Keduanya juga tidak dapat menyediakan jasa CSV. Untuk pemerataan suhu, keduanya juga tidak dilengkapi dengan fan (forced ventilation), namun hal ini tidak akan banyak berdampak karena ukuran inkubator tergolong kecil. Secara umum spesifikasi keduanya sudah cukup baik dan dapat memenuhi kebutuhan. Dengan demikian, pembelian dapat didasarkan pada harga: Binder BD260 terendah

Dibuat oleh,

 Diny Lucyane
 Quality Manager

Disetujui oleh,

 Dyah Arum M.
 Site Head

Note	Criticality	3	High
		2	Medium
		1	Low
	Compliance Score	1	Meet specification
		0	Not meet specification

Incubator 100 - 200 L

Parameter	Requirement	Criticality	a	Score	Criticality x Score	b	Score	Criticality x Score
Image								
Local Distributor	Available		PT ITS Science Indonesia			PT. GeneCraft Labs		
Brand	N/A		Memmert			Binder		
Type	N/A		IN55 PLUS			BD 56		
Indent Time	N/A		+/- 3 months			2-3 months		
Price (Before tax, based on Quotation)	N/A		IDR 76.125.000			IDR 47.915.200		
Capacity	100 - 200 L	2	56 L	1	2	57 L	1	2
Dimension WDH	NMT 90 cm x 80 cm x 120 cm	1	585 x 514 x 784 mm	1	1	560 x 565 x 625 mm	1	1
Temperature setting	Ambient + 5 to 80 C or higher	3	Ambient + 5 to 80 C	1	3	Ambient + 5 to 100 C	1	3
Temperature resolution	0,1 C	3	0,1 C	1	3	0,1 C	1	3
Working temp	+/- 45 C	2	Comply	1	2	Comply	1	2
Timer	Available	1	Available	1	1	Available	1	1
Data logger/retrieval	Yes, with USB or other method	3	Yes, with USB	1	3	Yes, with USB	1	3
Convection	Natural	1	Natural	1	1	Natural	1	1
Weight	NMT 120 kg	1	57 kg	1	1	39 kg	1	1
Tray	No less than 2	1	1 + 1 additional shelf	1	1	2	1	1
Door	Fully insulated Stainless Steel	2	Fully insulated Stainless Steel	1	2	Fully insulated Stainless Steel	1	2
Self adjustment (internal calibration)	Available	3	Available	1	3	Available	1	3
Data file	Uneditable (e.g., pdf)	3	PDF, excel	0	0	PDF, excel	0	0
IQ OQ	Included	3	Included	1	3	Included	1	3
Calibration	Included	3	Included	1	3	Included	1	3
CSV	Included	2	Not available	0	0	Not available	0	0
Total Score			29			29		
Remark			N/A			Harga yang dicantumkan mencakup unit, kalibrasi, IQ OQ, serta access port with silicone plug (untuk jalur sensor saat kualifikasi/kalibrasi). Terdapat biaya tambahan untuk software penarikan data (APT-COM™ 4 BASICEdition: for simple logging and documentation requirements with up to 5 networked units) sebesar IDR 7,182,000 yang dapat digunakan hingga 5 inkubator		

Conclusion:

Kedua incubator memiliki spesifikasi yang comparable. Keduanya tidak sepenuhnya dapat memenuhi kebutuhan data file (excel dapat diedit), namun hal tersebut dapat diatasi dengan SOP internal. Keduanya juga tidak dapat menyediakan jasa CSV. Akan tetapi, secara umum spesifikasi keduanya sudah cukup baik dan dapat memenuhi kebutuhan. **Dengan demikian, pembelian dapat didasarkan pada harga terendah: Binder BD56**

Dibuat oleh,


Diny Lucyanie
Quality Manager

Disetujui oleh,


Dyah Arum M.
Site Head

Note	Criticality	3	High
		2	Medium
		1	Low
	Compliance Score	1	Meet specification
		0	Not meet specification