

# ECT-STP series 50HZ Submersible Pumps



## ECT PUMP



### ECT-STP Submersible Pumps

ECT-STP Series is a robust 4" pump designed for long life and sand handling.

It is built mainly in stainless steel, a plastic (Noryl) discharge, a plastic (Noryl) bracket and a special floating impeller.

The design is to enhance the wear resistance and to maintain the performance over time.

Wide range of application of irrigation systems, pressure boosting, water supply and fountain applications for 4" well.

All ECT-STP pumps can be coupled to 4" NEMA standard motors.

### APPLICATIONS

1. Water Supply
2. Irrigation
3. Pressure Boosting

### FEATURES

**Discharge Head and Motor Adaptor** are made from Noryl for superior strength and durability. The motor adaptor is NEMA standard.

**Impellers are floating type made with Noryl®** for a superior sand handling. Together with glass filled polycarbonate diffusers make the super strong pumps for maximum wear and abrasive resistance. The materials are FDA compliant materials.

**Impeller Bowls** are made from 304 stainless steel, maximizing wear from abrasion.

**Strainer** is made from Polypropylene for rigidity.

**Non-Return valve** made from POM, fitted in the discharge to prevent any back flow of water and alleviate any water hammer to the pumps.

**Shaft Coupling** is made from 304 stainless steel for easy alignment to the motor shaft.

**Pump Shaft** is made from hex 304 stainless steel bar material for high corrosion resistance.

**Bearing** is made with Polyacetal for strong wear and abrasive resistance.

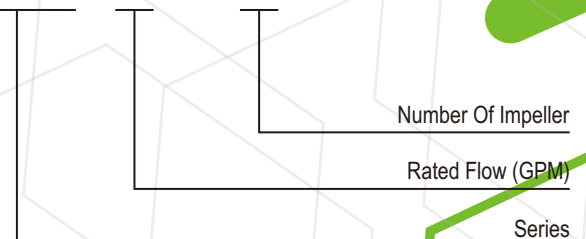
**Pump body** is covered by a 304 polished stainless steel casing, ensures optimum resistance to abrasion.

### OPERATION CONDITIONS

1. Rated Speed : 2850rpm
2. Delivery : 6.6 m<sup>3</sup>/h
3. Head : 139m
4. Sand Content : 150 g/m<sup>3</sup>
5. Motor Power : from 0.37 to 1.5kW

### MODEL CODE

ECT-STP 05 - 08

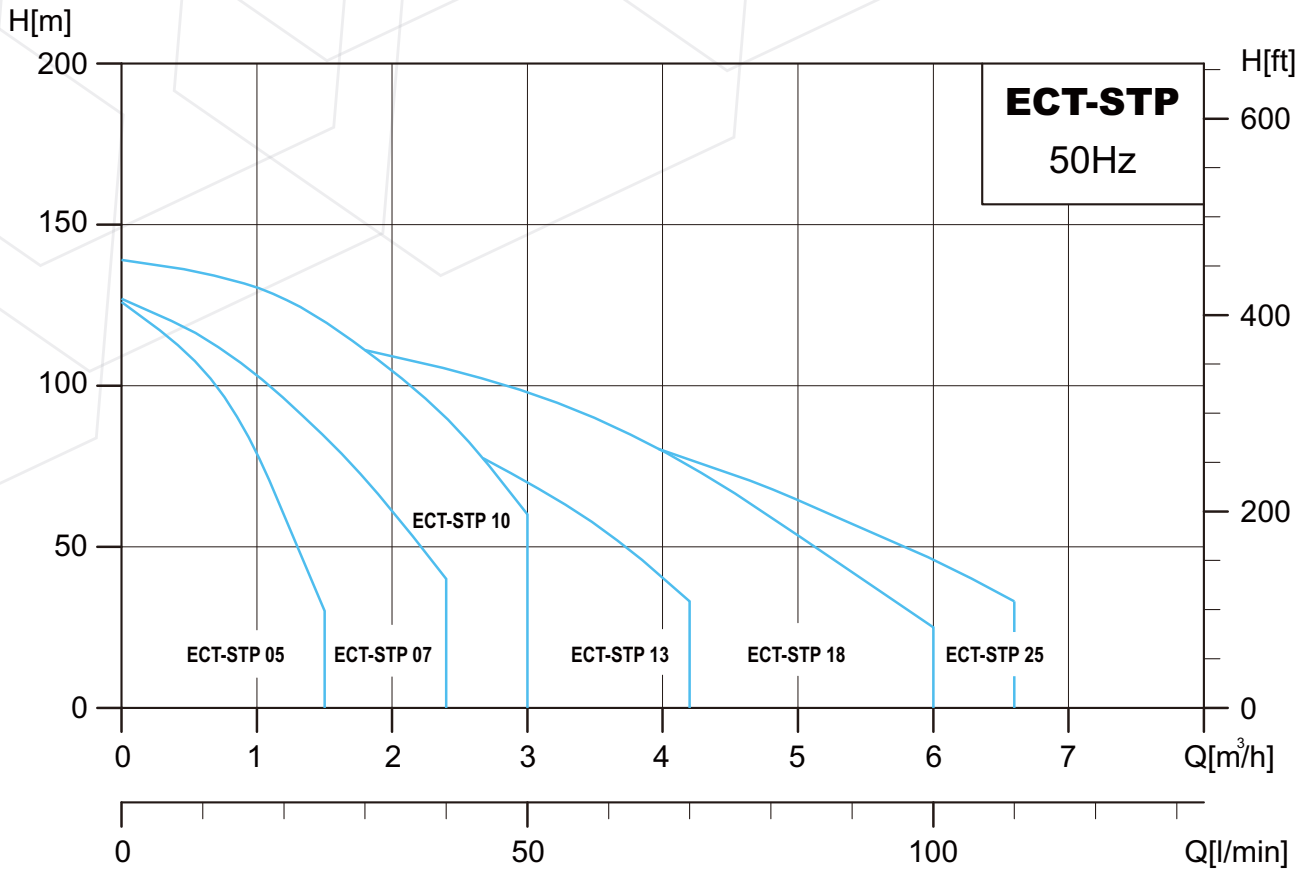




# ECT PUMP

## ECT-STP General Data

### PERFORMANCE RANGE



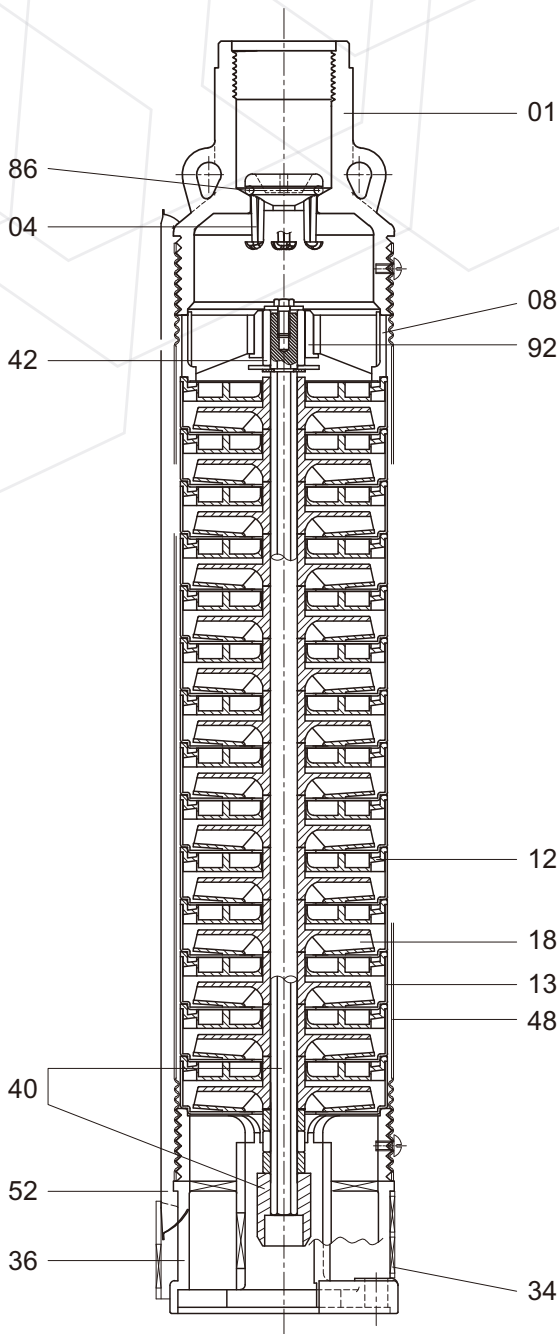
# ECT-STP

## General Data



# ECT PUMP

### MATERIALS

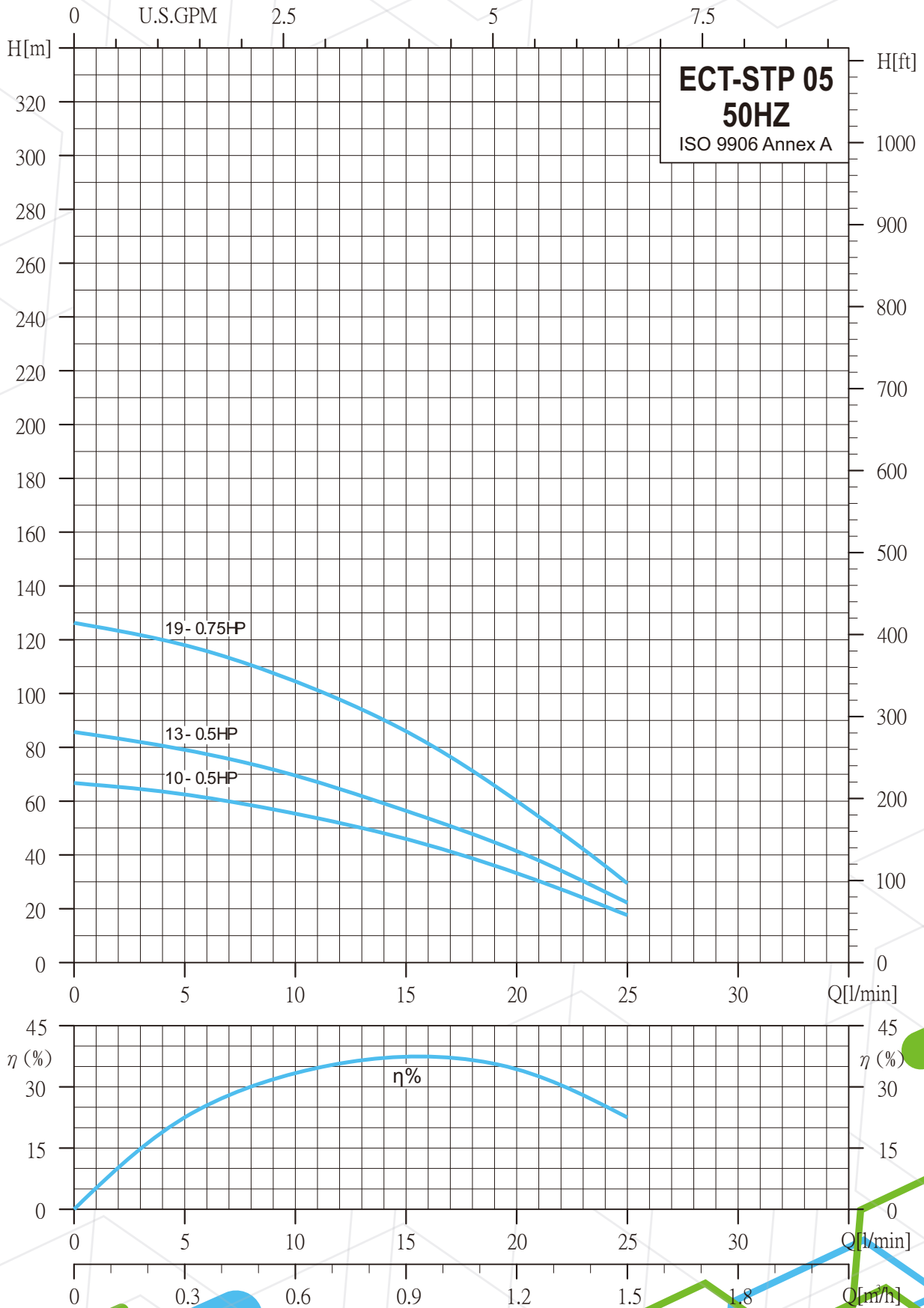


Pos.	Part Name	Material
01	Discharge Head	Noryl
04	Check Valve	POM
08	Bearing Spider	Glass Filled Polycarbonate
12	Diffuser	Glass Filled Polycarbonate
13	Bowl	AISI 304 SS
18	Impeller	Noryl
34	Strainer	Polypropylene ( PP )
36	Suction Interconnector	Noryl
40	Pump shaft / Coupling	AISI 304 SS
42	Shaft Sleeve	AISI 304 SS
48	Pump Casing	AISI 304 SS
52	Cable Guard	AISI 304 SS
86	O-Ring	NBR
92	Bearing	Poly Urethane ( PU )



## Technical Data

### Performance Curves



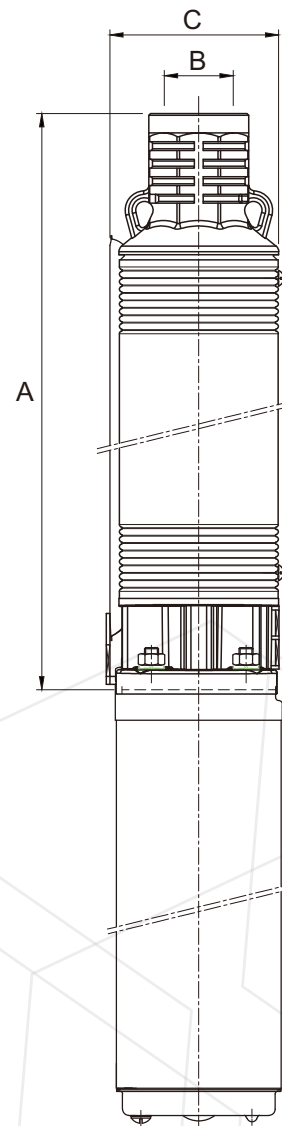
## Technical Data

### Specifications

Pump Type	Motor		Q=DELIVERY						
	kW	HP	l/min	0	5	10	15	20	25
			m <sup>3</sup> /h	0	0.3	0.6	0.9	1.2	1.5
ECT-STP 05-10	0.37	0.5	H (m)	67	63	55	46	33	18
ECT-STP 05-13	0.37	0.5		86	78	70	56	42	23
ECT-STP 05-19	0.55	0.75		126	118	105	86	60	30

### Dimensions and Weights

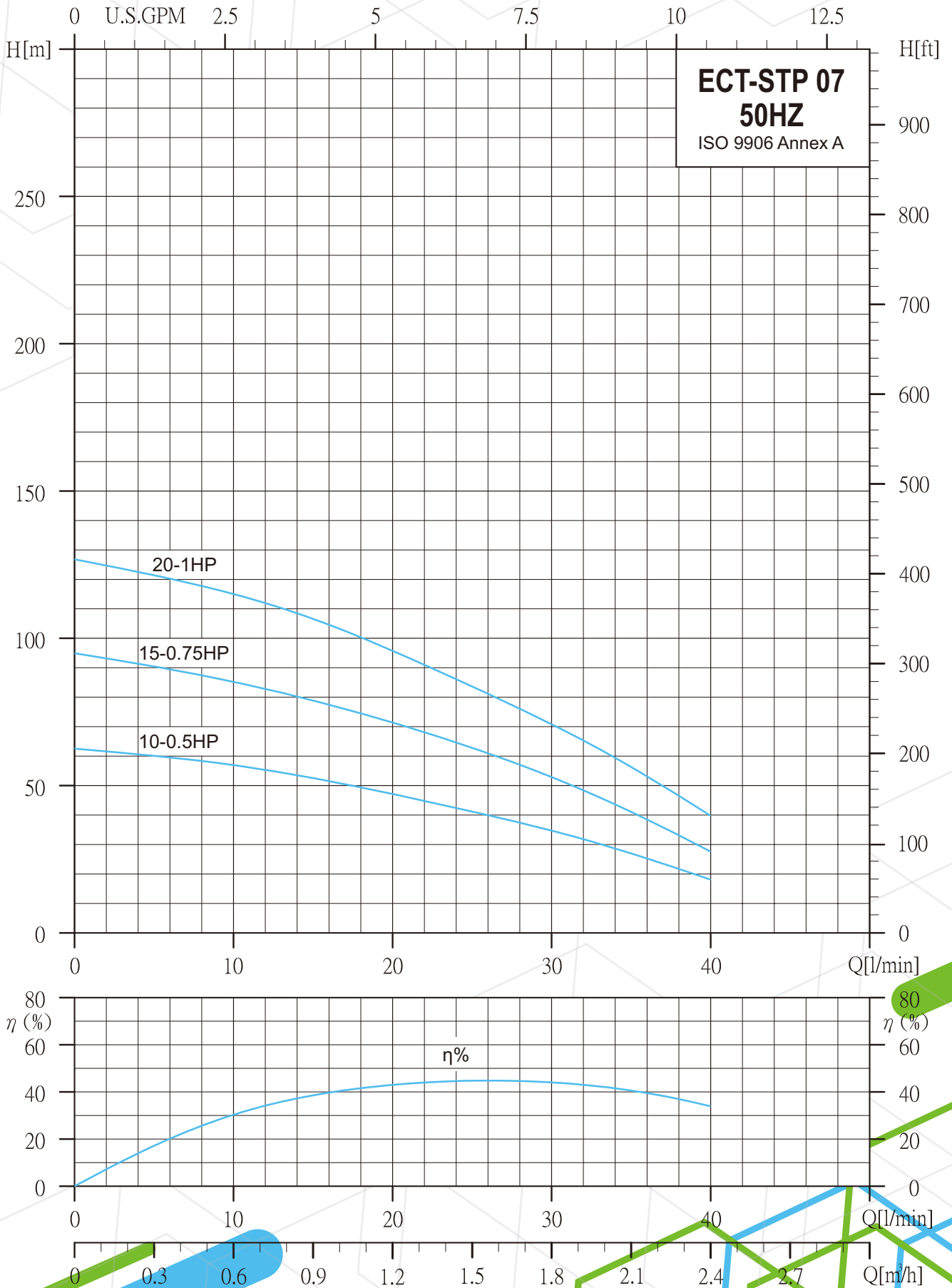
Pump Type	Dimensions (mm)			Net Weight (kg)
	A	B	C	
ECT-STP 05-10	396	Rp 1 1/4" NPT 1 1/4"	98	2.4
ECT-STP 05-13	449		98	2.9
ECT-STP 05-19	555		98	3.9





## Technical Data

### Performance Curves



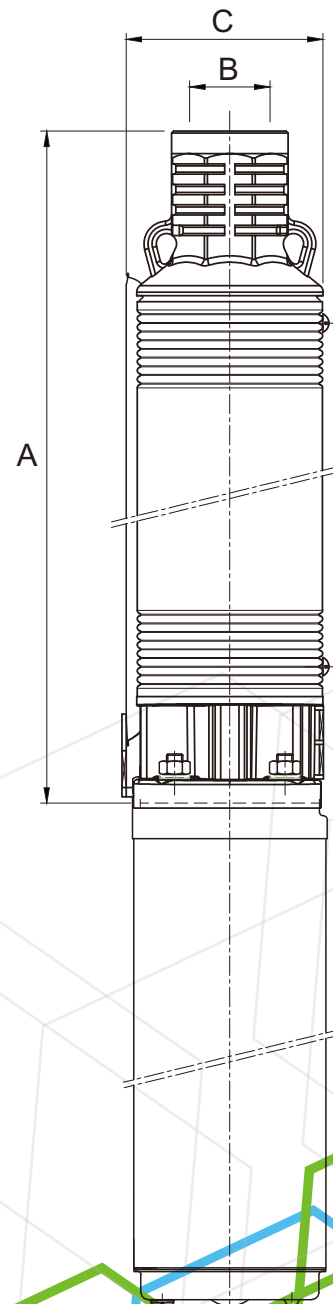
## Technical Data

### Specifications

Pump Type	Motor		Q=DELIVERY								
	kW	HP	l/min	0	10	15	20	25	30	35	40
			m <sup>3</sup> /h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4
ECT-STP 07-10	0.37	0.5	H (m)	63	57	53	47	42	35	27	18
ECT-STP 07-15	0.55	0.75		95	86	78	72	63	53	41	28
ECT-STP 07-20	0.75	1.0		127	115	107	96	84	71	56	40

### Dimensions and Weights

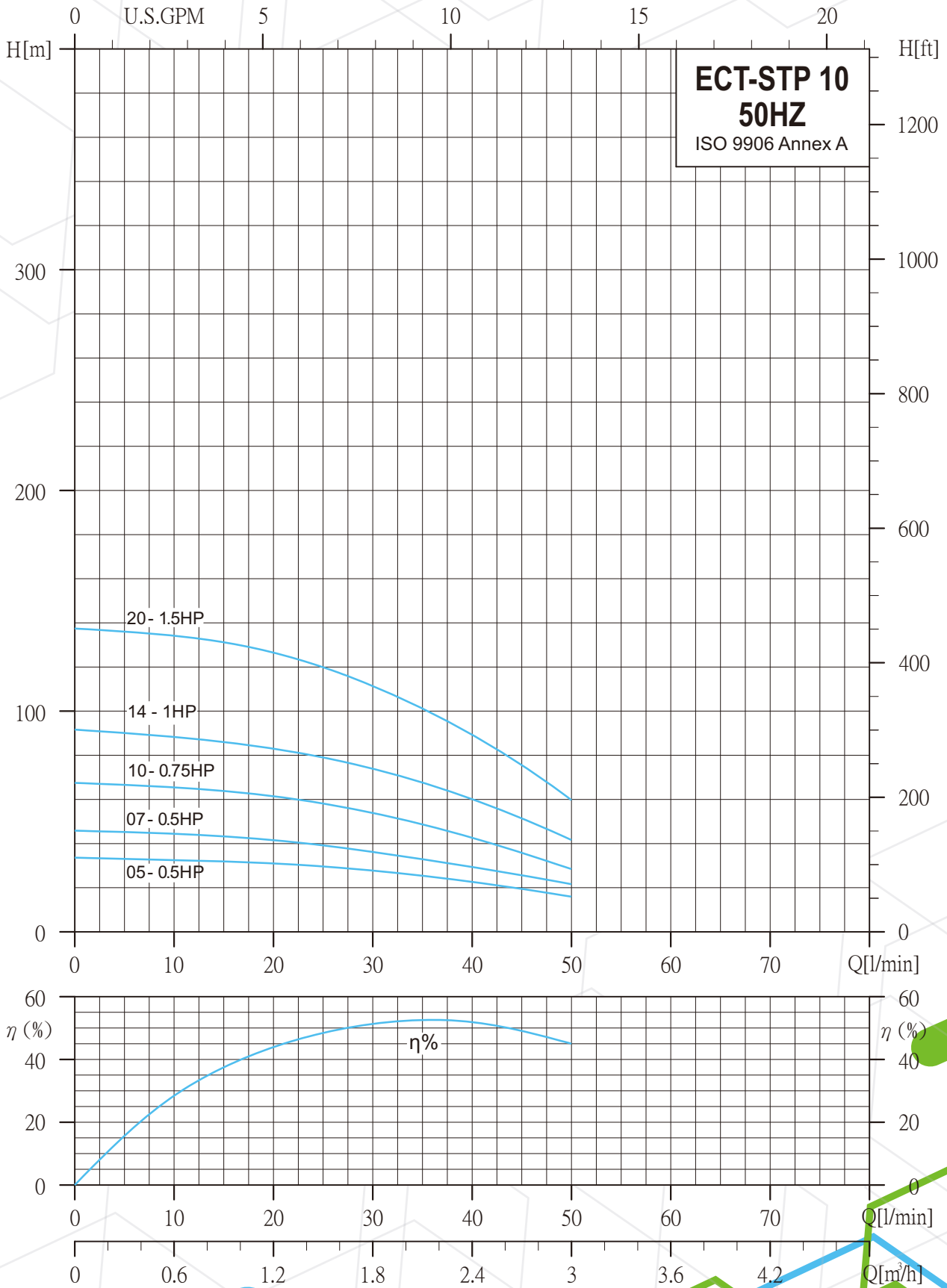
Pump Type	Dimensions (mm)			Net Weight (kg)
	A	B	C	
ECT-STP 07-10	402	Rp 1 1/4" NPT 1 1/4"	98	2.4
ECT-STP 07-15	493		98	3.2
ECT-STP 07-20	583		98	4.0





## Technical Data

### Performance Curves





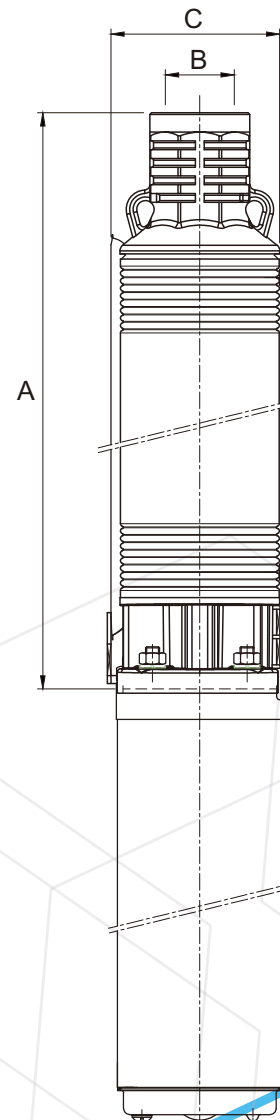
## Technical Data

### Specifications

Pump Type	Motor		Q=DELIVERY									
	kW	HP	l/min	0	15	20	25	30	35	40	45	50
			m <sup>3</sup> /h	0	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
ECT-STP 10-05	0.37	0.5	H (m)	34	32	31	29	27	25	23	19	16
ECT-STP 10-07	0.37	0.5		46	43	42	39	36	33	29	26	22
ECT-STP 10-10	0.55	0.75		67	64	61	58	54	49	43	36	28
ECT-STP 10-14	0.75	1.0		92	86	83	79	74	67	60	52	42
ECT-STP 10-20	1.1	1.5		139	131	127	120	111	101	90	75	60

### Dimensions and Weights

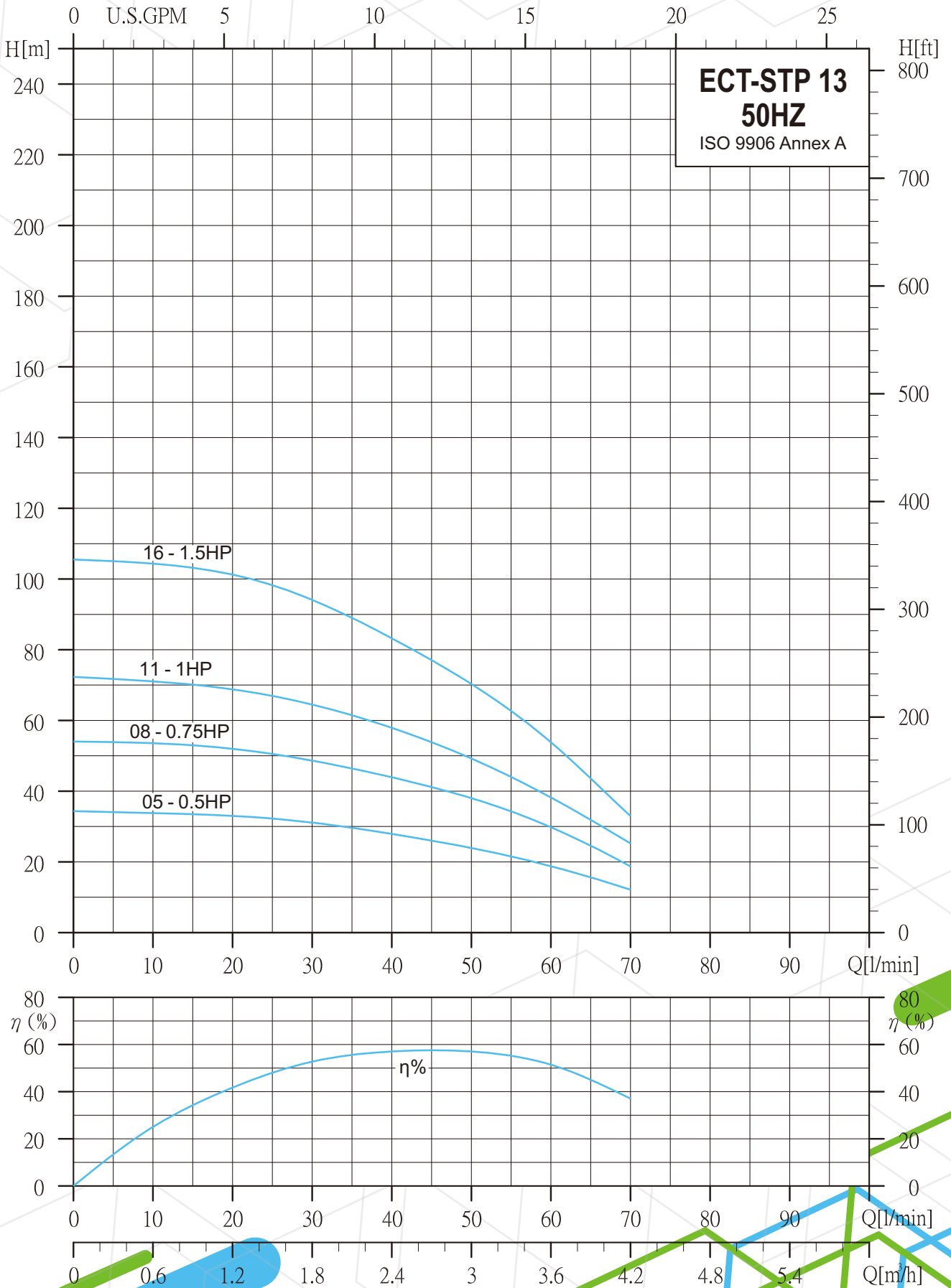
Pump Type	Dimensions (mm)			Net Weight (kg)
	A	B	C	
ECT-STP 10-05	309	Rp 1 1/4" NPT 1 1/4"	98	1.6
ECT-STP 10-07	344		98	1.9
ECT-STP 10-10	397		98	2.4
ECT-STP 10-14	467		98	3.0
ECT-STP 10-20	573		98	4.0





## Technical Data

### Performance Curves



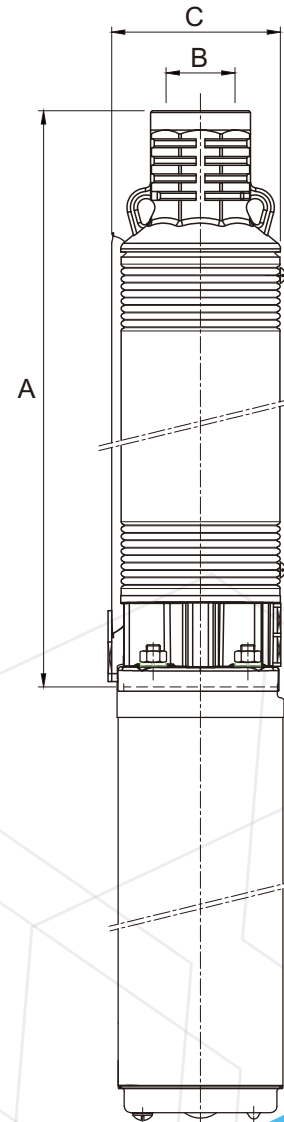
## Technical Data

### Specifications

Pump Type	Motor		Q=DELIVERY										
	kW	HP	l/min	0	20	25	30	35	40	45	50	60	70
			m <sup>3</sup> /h	0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2
ECT-STP 13-05	0.37	0.5	H (m)	34	32	31	30	29	27	25	23	18	11
ECT-STP 13-08	0.55	0.75		54	51	50	49	46	43	41	38	30	19
ECT-STP 13-11	0.75	1.0		72	68	66	64	61	58	54	49	38	26
ECT-STP 13-16	1.1	1.5		106	101	98	95	89	83	77	70	54	33

### Dimensions and Weights

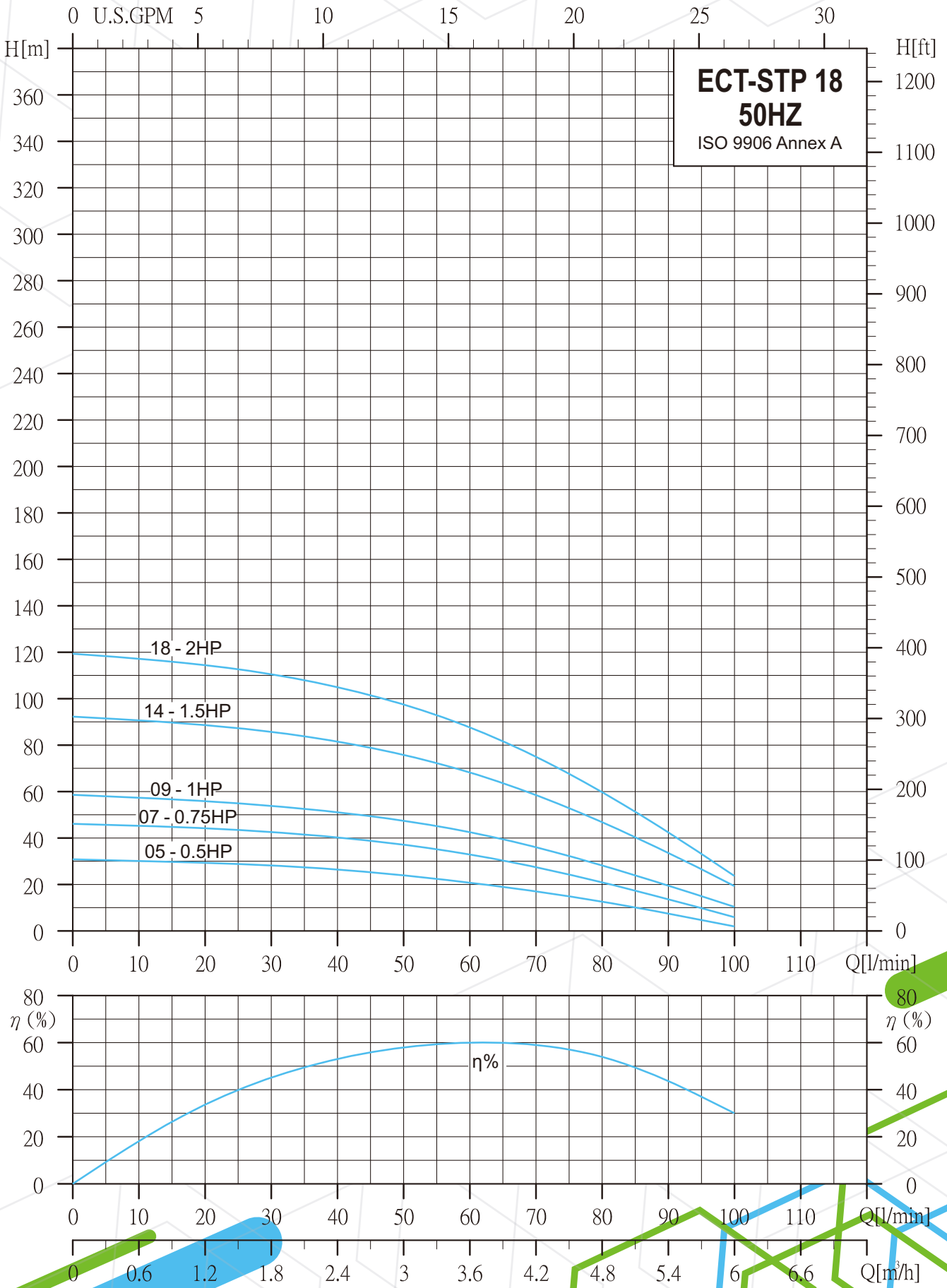
Pump Type	Dimensions (mm)			Net Weight (kg)
	A	B	C	
ECT-STP 13-05	309	Rp 1 1/4" NPT 1 1/4"	98	1.6
ECT-STP 13-08	362		98	2.1
ECT-STP 13-11	414		98	2.5
ECT-STP 13-16	503		98	3.3





### Technical Data

#### Performance Curves



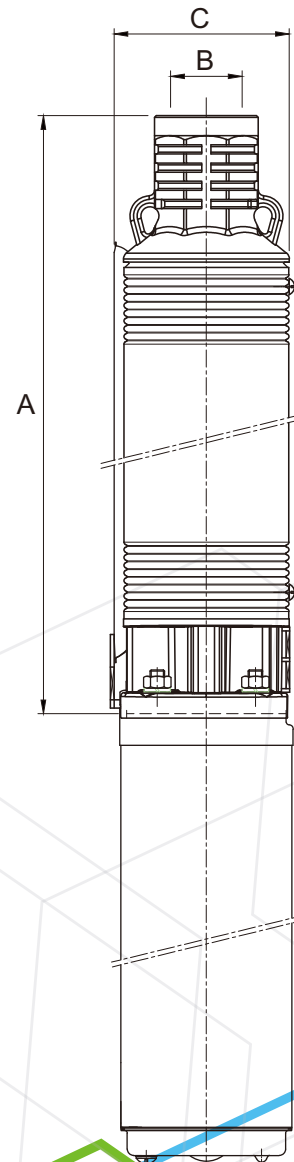
## Technical Data

### Specifications

Pump Type	Motor		Q=DELIVERY												
	kW	HP	l/min	0	25	30	35	40	45	50	60	70	80	90	100
			m <sup>3</sup> /h	0	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
ECT-STP 18-05	0.37	0.5	H (m)	33	29	28	27	26	25	24	21	18	13	8	3
ECT-STP 18-07	0.55	0.75		46	43	42	41	39	38	36	33	28	22	15	7
ECT-STP 18-09	0.75	1.0		59	55	54	52	51	49	47	43	37	28	20	10
ECT-STP 18-14	1.1	1.5		93	87	86	83	81	79	76	68	58	47	33	20
ECT-STP 18-18	1.5	2.0		120	113	111	108	105	102	98	88	75	60	42	25

### Dimensions and Weights

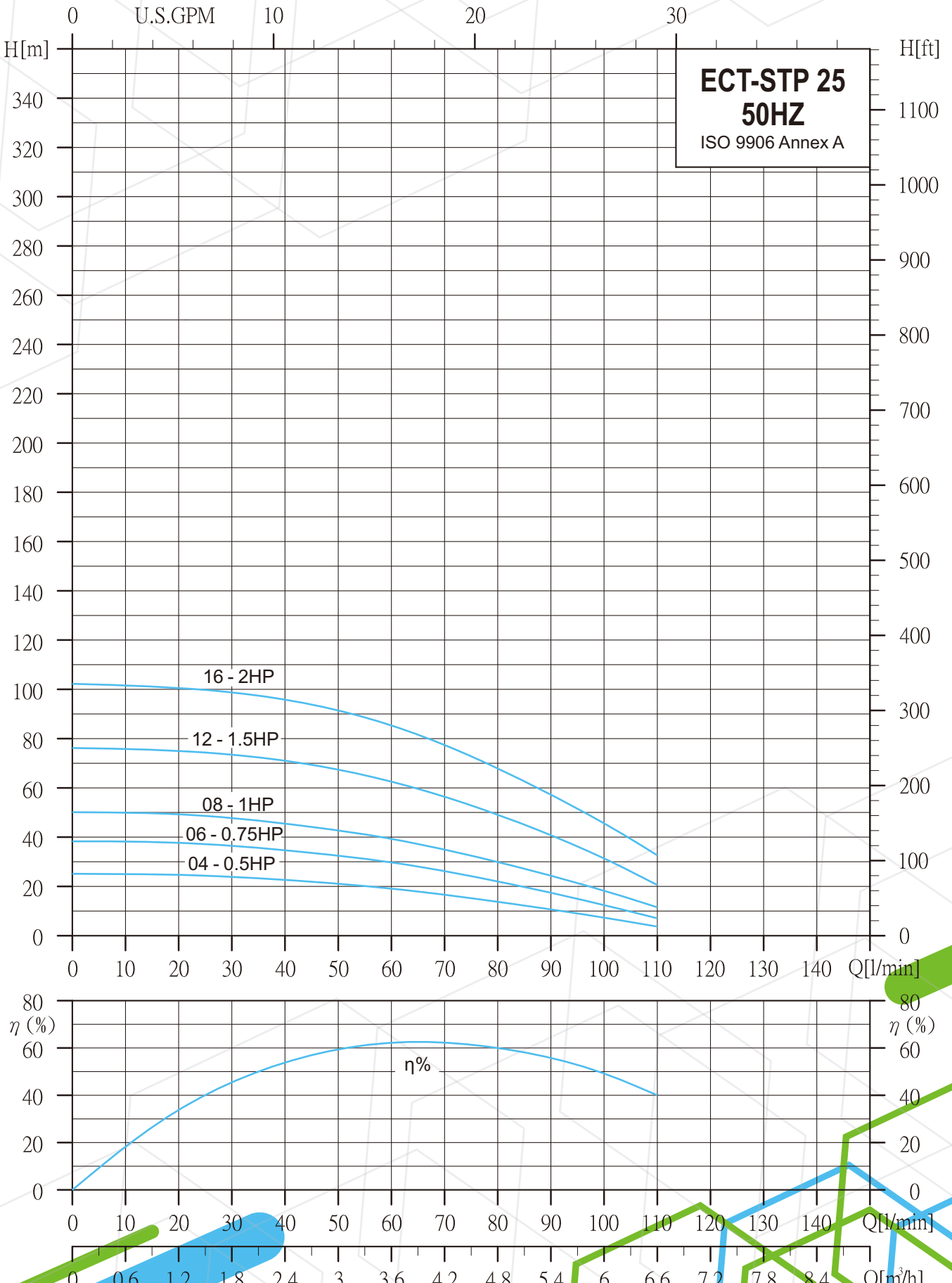
Pump Type	Dimensions (mm)			Net Weight (kg)
	A	B	C	
ECT-STP 18-05	328	Rp 1 1/4" NPT 1 1/4"	98	1.7
ECT-STP 18-07	371		98	2.1
ECT-STP 18-09	414		98	2.5
ECT-STP 18-14	522		98	3.3
ECT-STP 18-18	608		98	4.0





## Technical Data

### Performance Curves



## Technical Data

### Specifications

Pump Type	Motor		Q=DELIVERY										
	kW	HP	l/min	0	35	40	45	50	60	70	80	90	100
			m <sup>3</sup> /h	0	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
ECT-STP 25-04	0.37	0.5	H (m)	26	23	22	22	21	19	17	14	11	7
ECT-STP 25-06	0.55	0.75		38	36	35	33	32	30	26	22	18	12
ECT-STP 25-08	0.75	1.0		51	47	46	44	43	39	35	30	24	18
ECT-STP 25-12	1.1	1.5		77	72	71	69	68	63	57	49	41	31
ECT-STP 25-16	1.5	2.0		102	98	96	94	92	86	77	68	57	46

### Dimensions and Weights

Pump Type	Dimensions (mm)			Net Weight (kg)
	A	B	C	
ECT-STP 25-04	319	Rp 1 1/2" NPT 1 1/2"	98	1.7
ECT-STP 25-06	368		98	2.0
ECT-STP 25-08	417		98	2.4
ECT-STP 25-12	515		98	3.1
ECT-STP 25-16	613		98	3.9

