VESTAPOMP
Makes life comfortable

TH CDLF

STAINLESS BOOSTERS

General Information

High pressure, quiet running, compact and low power consumption.
All surfaces that contact with the liquid are stainless steel, In-line (straight pipe attachable) type pumps.
CDLF pumps are suitable for pumping non-abrasive, clean or slightly contaminated, low-viscosity liquids without solid & fibrous particles.
Bearing is provided by tungsten carbide sliding bearings.
Vertical structure saves space.

Technical Data

Capacity	up to 110 m^3/h
Head	up to 160 m
Operating Temperature	-10 °C to 120 °C
Casing Pressure	10 - 16 - 25 bar

•Electric motors of high efficiency class conforming to IEC 60034-30 standard are used.
•Booster pumps can be manufactured with valve, check-valve, stainless steel base plate, depending on request.
•The booster pumps can be manufactured as a variable-speed frequency control for convenience.
•At 11 kW and above, the booster pump base plate is NPU iron construction.

Design Features

•TH CDLF booster pumps are manufactured as vertical pump.
•The booster pumps are produced as single, double and triple pumps as a standard according to the desired flow rate. Upon request, up to 6 pumps can be set.
•For Single-pump booster pumps have a water level float (electric floater).
•Phase control system (PCS) is available in single pump, three-phase motorized booster pumps.
•Sequencing, phase control and liquid level control are standard features for multiple pumped booster pumps.
•Booster pumps can operate in two different modes; automatically and manually.
•Electrical materials used in the booster pump panels are selected from reliable and quality brands.

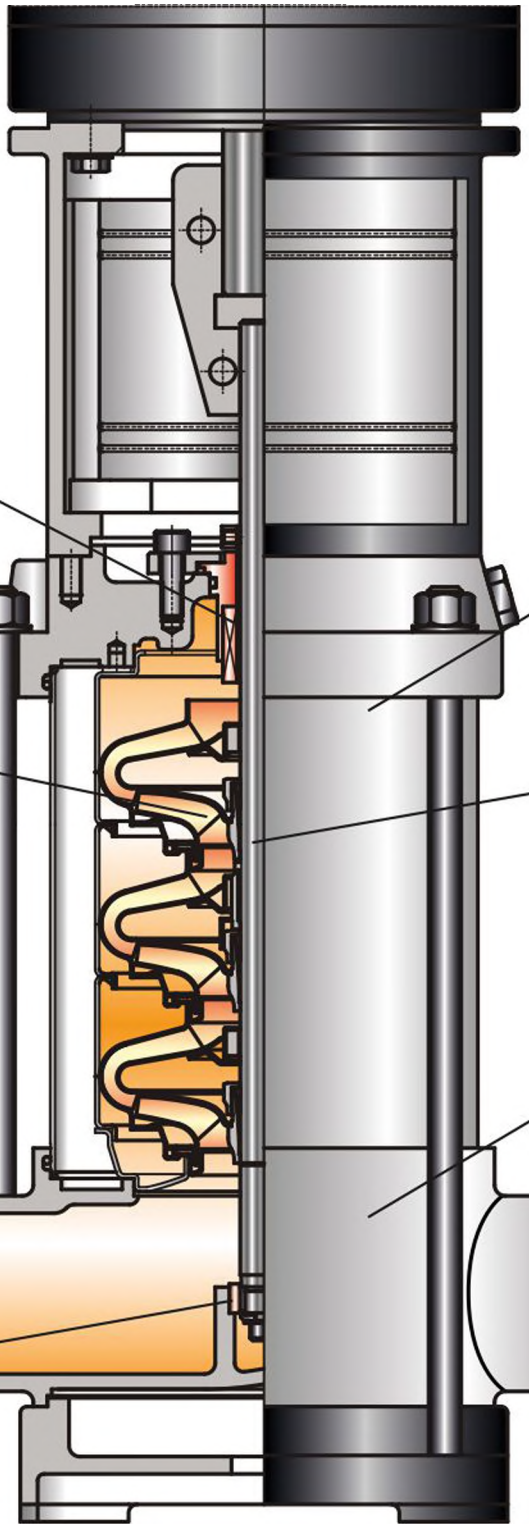
Booster Designation

TH -1 x CDLF 4 / 10

- **Booster Type**
- **Number of Pumps**
- **Pump Type**
- **Model**
- **Number of Stage**

Material Information

Part Name	Material	
	Standard	Optional
Pump		
Base Plate	GG 25	-
Stage Casing	AISI 304	-
Intermadiate Stage	AISI 304	-
Impeller	AISI 304	-
Shaft	AISI 304	-
Tube	AISI 304	-
Panel	Pressure Switch Controlled	Frequency Controlled
Collector	AISI 304	AISI 316 L / Galvanized Steel
Frame	Galvanized Steel	AISI 316 L
Accessories		
Valve	Brass	AISI 304
Check Valve	Brass	AISI 316



Shaft Sealing:
Mechanical seal is provided. The pump can be changed without separating the installation/facility.

Modular Structure:
Ensures to reduce costs of spare parts and stock.

Stainless Steel Impeller:
Highly productive design produced by Sheet Forming Technology

Connection without key technology makes it easy to remove the impellers during maintenance.

Suction and Discharge Casing:
Stainless steel body in-line design makes it easy for installation.

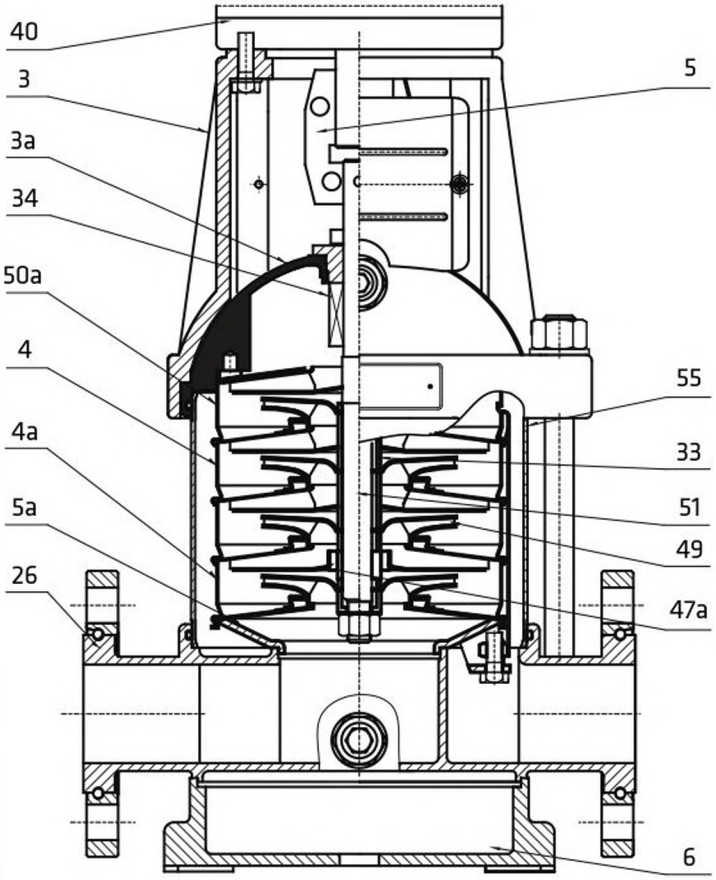
Rotary Connection Flanges:
Hole axis adjustment is easier by means of the rotating structure.

Pump Bearings:
It has a long life and silent structure by means of tungsten carbide bearings.

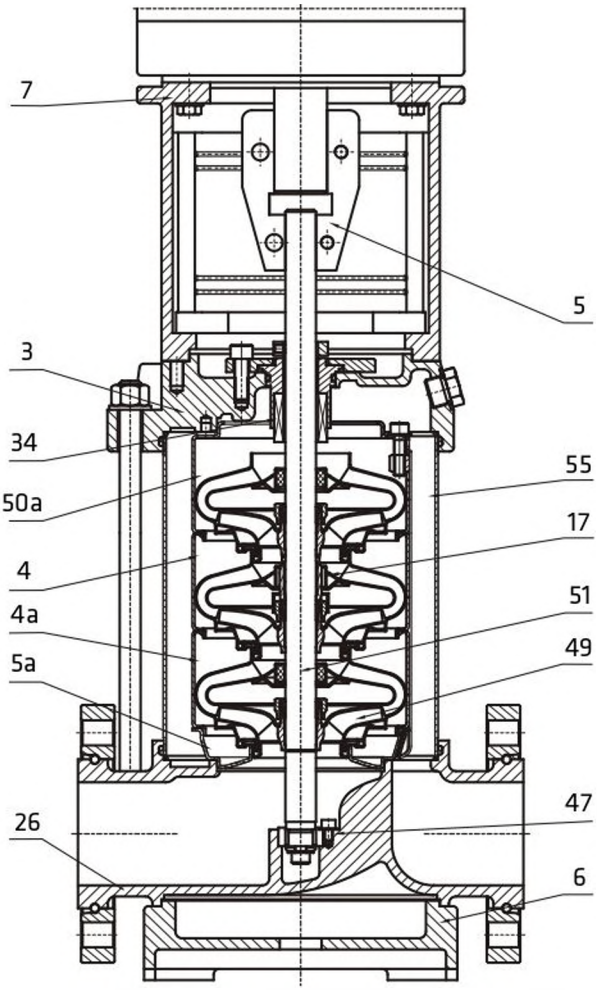
Sectional Drawings

TH CDLF

CDLF 4,8,12,16,20



CDLF 32,42,65,85



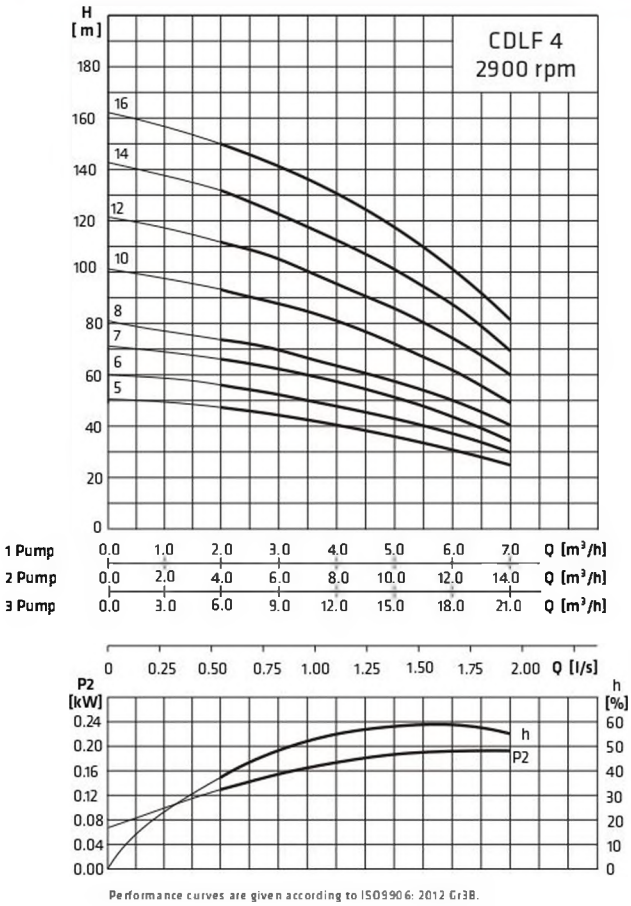
Part List

3	Upper Body	Cast Iron (GG 25)
3a	Liner	Stainless Steel (AISI 304)
4	Diffuser	Stainless Steel (AISI 304)
4a	Lower Diffuser	Stainless Steel (AISI 304)
5	Coupling	Carbon Steel
5a	Inducer	Stainless Steel (AISI 304)
6	Baseplate	Cast Iron (GG 25)
26	Suction and Discharge Casing	Stainless Steel (AISI 304)
33	Sleeve	Stainless Steel (AISI 304)
34	Mechanical Seal	-
40	Electric Motor	-
47a	Bearing	Tungsten carbide
49	Impeller	Stainless Steel (AISI 304)
50a	Upper Diffuser	Stainless Steel (AISI 304)
51	Pump Shaft	Stainless Steel (AISI 304)
55	Cover Plate	Stainless Steel (AISI 304)

3	Upper Body	Stainless steel (AISI 304)
4	Diffuser	Stainless steel (AISI 304)
4a	Lower Diffuser	Stainless steel (AISI 304)
5	Coupling	Carbon Steel
5a	Inducer	Stainless steel (AISI 304)
6	Baseplate	Cast Iron (GG 25)
7	Motor Pedestal	Cast Iron (GG 25)
17	Bearing	Tungsten carbide
26	Suction and Discharge Casing	Stainless steel (AISI 304)
34	Mechanical Seal	-
47	Lower Bearing	Tungsten Carbide
49	Impeller	Stainless steel (AISI 304)
50a	Upper Diffuser	Stainless steel (AISI 304)
51	Pump shaft	Stainless steel (AISI 304)
55	Cover Plate	Stainless steel (AISI 304)

Performance Curve and Dimension Charts

TH CDLF

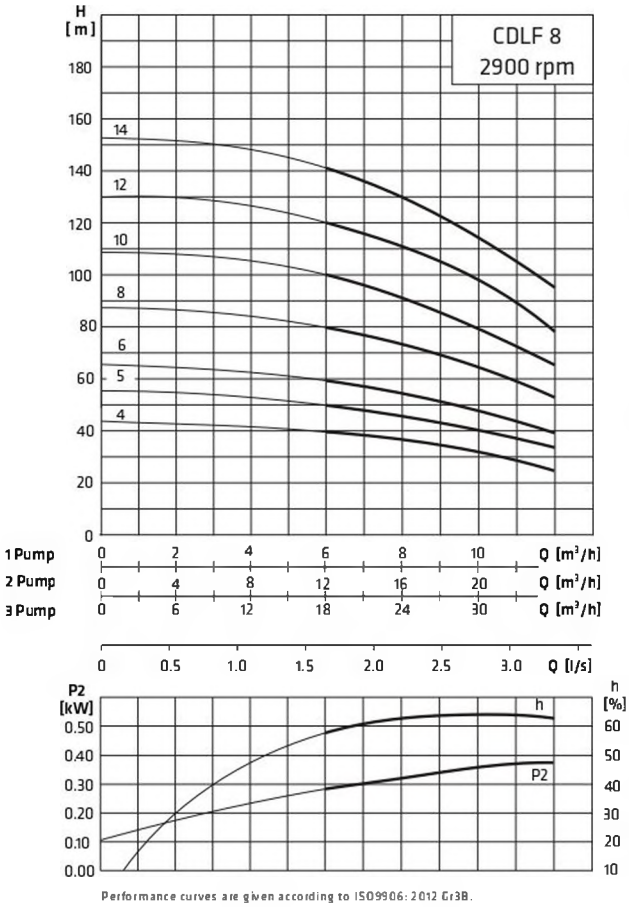


Performance curves are given according to ISO9906: 2012 Gr3B.

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 4-5	1,1	1 1/2"	1 1/4"	400	300	450	700	320	280	415	125	A	39
TH-1xCDLF 4-6							700						39
TH-1xCDLF 4-7	1,5						800						45
TH-1xCDLF 4-8							800						45
TH-1xCDLF 4-10	2,2						900						49
TH-1xCDLF 4-12							950						50
TH-1xCDLF 4-14	3						1000						58
TH-1xCDLF 4-16							1050						60

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 4-5	1,1	2"	2"	1000	400	1150	700	670	380	587	125	A	101
TH-2xCDLF 4-6							700						101
TH-2xCDLF 4-7	1,5						800						113
TH-2xCDLF 4-8							800						113
TH-2xCDLF 4-10	2,2						900						121
TH-2xCDLF 4-12							950						123
TH-2xCDLF 4-14	3						1000						139
TH-2xCDLF 4-16							1050						143

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 4-5	1,1	2"	2"	1000	400	1150	700	920	380	587	125	A	147
TH-3xCDLF 4-6							700						147
TH-3xCDLF 4-7	1,5						800						165
TH-3xCDLF 4-8							800						165
TH-3xCDLF 4-10	2,2						900						177
TH-3xCDLF 4-12							950						180
TH-3xCDLF 4-14	3						1000						204
TH-3xCDLF 4-16							1050						210



Performance curves are given according to ISO9906: 2012 Gr3B.

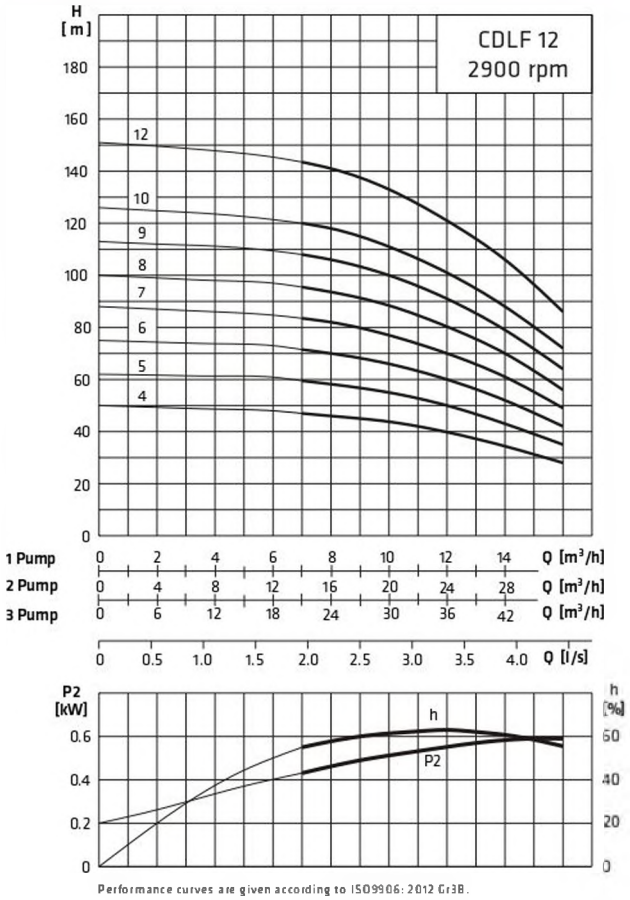
Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 8-4	1,5	2"	1 1/2"	450	400	500	800	370	380	465	130	A	54
TH-1xCDLF 8-5	2,2						800						58
TH-1xCDLF 8-6							850						59
TH-1xCDLF 8-8	3						950						67
TH-1xCDLF 8-10	4						1000						78
TH-1xCDLF 8-12							1100						80
TH-1xCDLF 8-14	5,5						1250						95

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 8-4	1,5	2"	2"	920	450	1100	800	840	430	665	130	A	131
TH-2xCDLF 8-5	2,2						800						139
TH-2xCDLF 8-6							850						141
TH-2xCDLF 8-8	3						950						157
TH-2xCDLF 8-10	4						1000						179
TH-2xCDLF 8-12							1100						183
TH-2xCDLF 8-14	5,5						1250						213

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 8-4	1,5	2 1/2"	2 1/2"	1300	450	1500	800	1220	430	680	130	A	190
TH-3xCDLF 8-5	2,2						800						202
TH-3xCDLF 8-6							850						205
TH-3xCDLF 8-8	3						950						229
TH-3xCDLF 8-10	4						1000						262
TH-3xCDLF 8-12							1100						268
TH-3xCDLF 8-14	5,5						1250						313

Performance Curve and Dimension Charts

TH CDLF

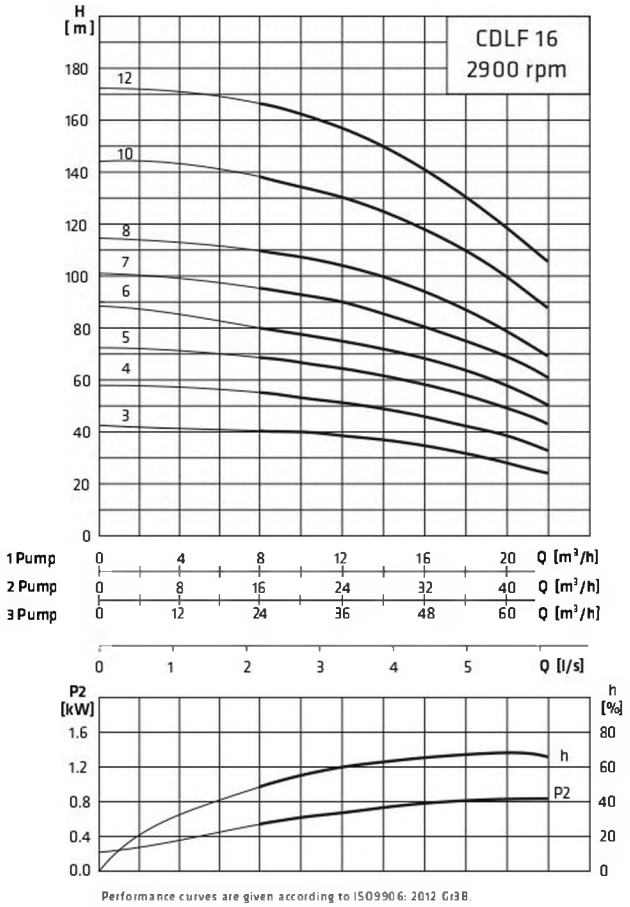


Performance curves are given according to ISO9906: 2012 Gr3B.

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 12-4	3	2"	2"	450	400	500	850	370	380	490	140	A	65
TH-1xCDLF 12-5							850						67
TH-1xCDLF 12-6	4						900						75
TH-1xCDLF 12-7	5,5						1050						87
TH-1xCDLF 12-8							1100						88
TH-1xCDLF 12-9							1100						90
TH-1xCDLF 12-10	7,5						1150						110
TH-1xCDLF 12-12							1200						114

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 12-4	3	2 1/2"	2 1/2"	920	450	1100	850	840	430	735	140	A	153
TH-2xCDLF 12-5							850						157
TH-2xCDLF 12-6	4						900						173
TH-2xCDLF 12-7	5,5						1050						197
TH-2xCDLF 12-8							1100						199
TH-2xCDLF 12-9							1100						203
TH-2xCDLF 12-10	7,5						1150						232
TH-2xCDLF 12-12							1200						240

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 12-4	3	3"	3"	1300	450	1500	850	1220	430	745	140	A	223
TH-3xCDLF 12-5							850						229
TH-3xCDLF 12-6	4						900						253
TH-3xCDLF 12-7	5,5						1050						289
TH-3xCDLF 12-8							1100						292
TH-3xCDLF 12-9							1100						298
TH-3xCDLF 12-10	7,5						1150						405
TH-3xCDLF 12-12							1200						417



Performance curves are given according to ISO9906: 2012 Gr3B.

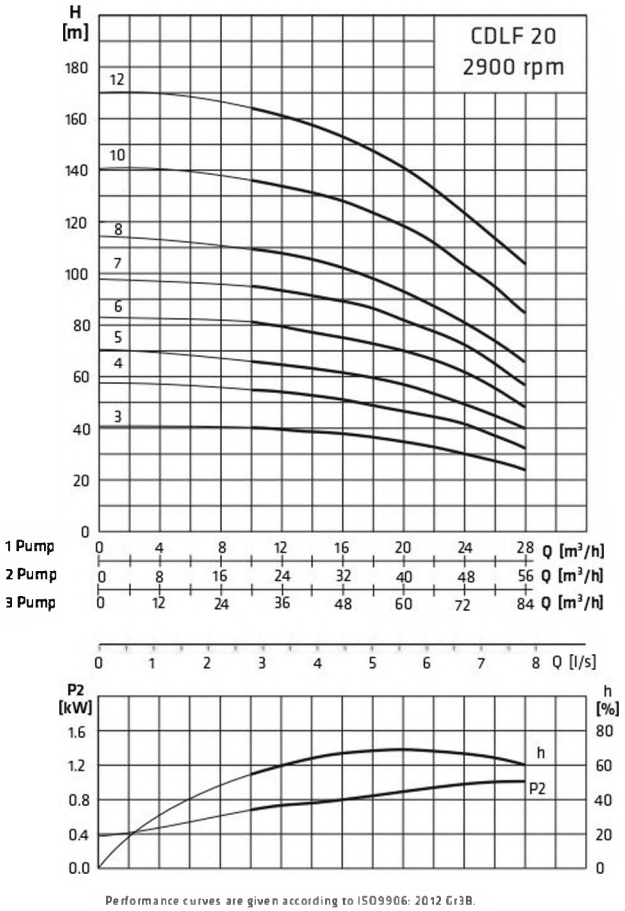
Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 16-3	3	2"	2"	450	400	500	850	370	380	490	140	A	64
TH-1xCDLF 16-4	4						900						73
TH-1xCDLF 16-5	5,5						1050						90
TH-1xCDLF 16-6							1100						91
TH-1xCDLF 16-7	7,5						1150						98
TH-1xCDLF 16-8							1200						100
TH-1xCDLF 16-10	11			570	490	-	1500	530	350		120	B*	182
TH-1xCDLF 16-12							1600						185

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 16-3	3	2 1/2"	2 1/2"	920	450	1100	850	840	430	735	140	A	151
TH-2xCDLF 16-4	4						900						169
TH-2xCDLF 16-5	5,5						1050						203
TH-2xCDLF 16-6							1100						205
TH-2xCDLF 16-7	7,5						1150						219
TH-2xCDLF 16-8							1200						223
TH-2xCDLF 16-10	11			700	780	-	1550	660	640		220	B*	382
TH-2xCDLF 16-12							1650						388

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 16-3	3	3"	3"	1300	450	1500	850	1220	430	745	140	A	220
TH-3xCDLF 16-4	4						900						247
TH-3xCDLF 16-5	5,5						1050						298
TH-3xCDLF 16-6							1100						301
TH-3xCDLF 16-7	7,5						1150						322
TH-3xCDLF 16-8							1200						328
TH-3xCDLF 16-10	11			1150	800	-	1550	1110	660		220	B*	577
TH-3xCDLF 16-12							1650						585

Performance Curve and Dimension Charts

TH CDLF



Performance curves are given according to ISO9906: 2012 Gr3B.

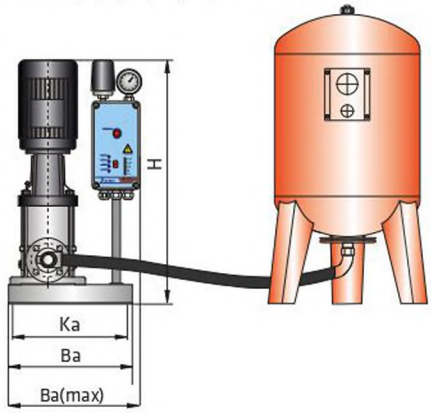
Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 20-3	4	2 1/2"	2 1/2"	450	400	500	850	370	380	555	140	A	72
TH-1xCDLF 20-4	5,5						1000						88
TH-1xCDLF 20-5							1050						90
TH-1xCDLF 20-6	7,5						1100						96
TH-1xCDLF 20-7							1150						98
TH-1xCDLF 20-8	11			570	570	-	1450	530	430		220	B*	179
TH-1xCDLF 20-10							1500						183
TH-1xCDLF 20-12	15						1600						196

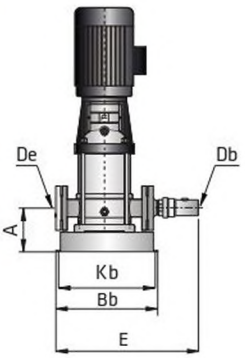
Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 20-3	4	3"	3"	920	450	1100	850	840	430	855	140	A	167
TH-2xCDLF 20-4	5,5						1000						199
TH-2xCDLF 20-5							1050						203
TH-2xCDLF 20-6	7,5						1100						215
TH-2xCDLF 20-7							1150						219
TH-2xCDLF 20-8	11			700	850	-	1450	660	710		220	B*	399
TH-2xCDLF 20-10							1550						407
TH-2xCDLF 20-12	15						1650						438

Pump Type	kW	De	Db	Ba	Bb	Ba(max)	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 20-3	4	4"	4"	1300	900	-	900	1260	760	855	220	B*	292
TH-3xCDLF 20-4	5,5						1100						340
TH-3xCDLF 20-5							1100						346
TH-3xCDLF 20-6	7,5						1150						364
TH-3xCDLF 20-7							1200						370
TH-3xCDLF 20-8	11						1400						597
TH-3xCDLF 20-10							1500						609
TH-3xCDLF 20-12	15						1600						653

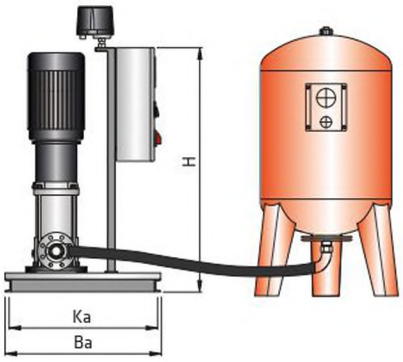
Booster set with one pump

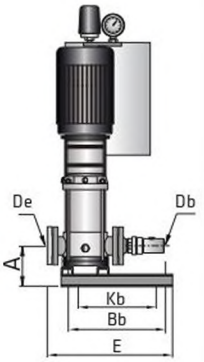
CDLF (4,8,12,16,20) Plate Baseplate design





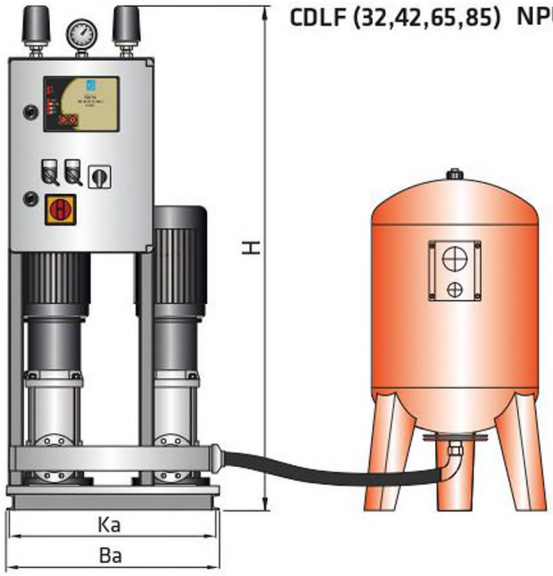
CDLF (32,42,65,85) NPU Baseplate Design

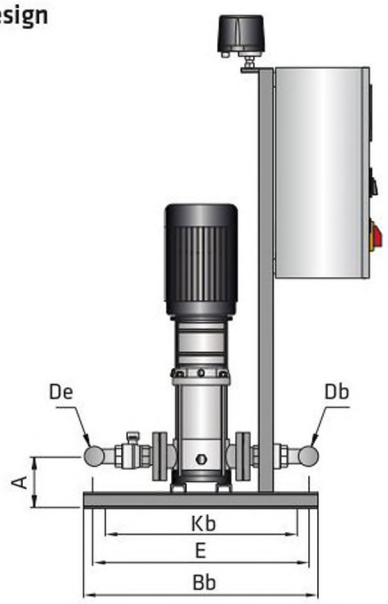




Booster set with two pump

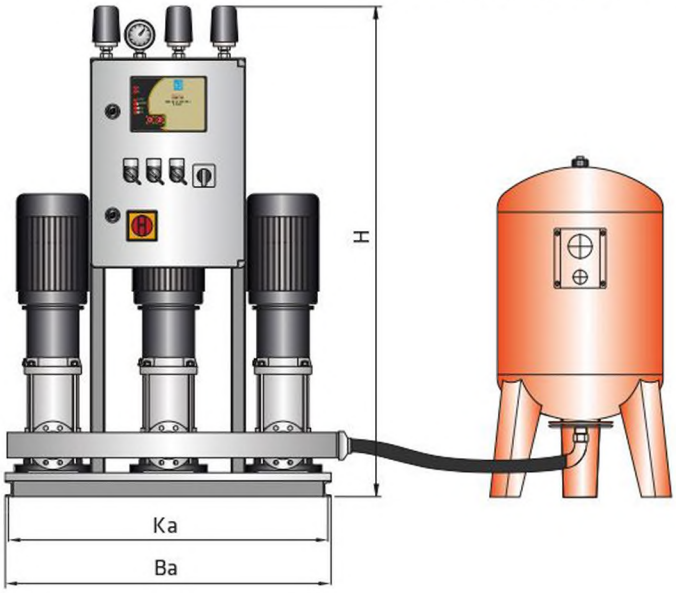
CDLF (32,42,65,85) NPU Baseplate Design

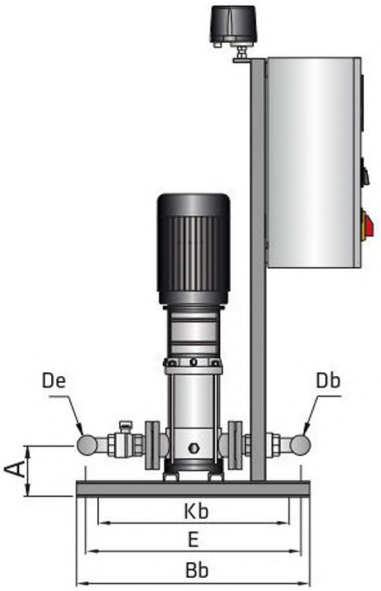




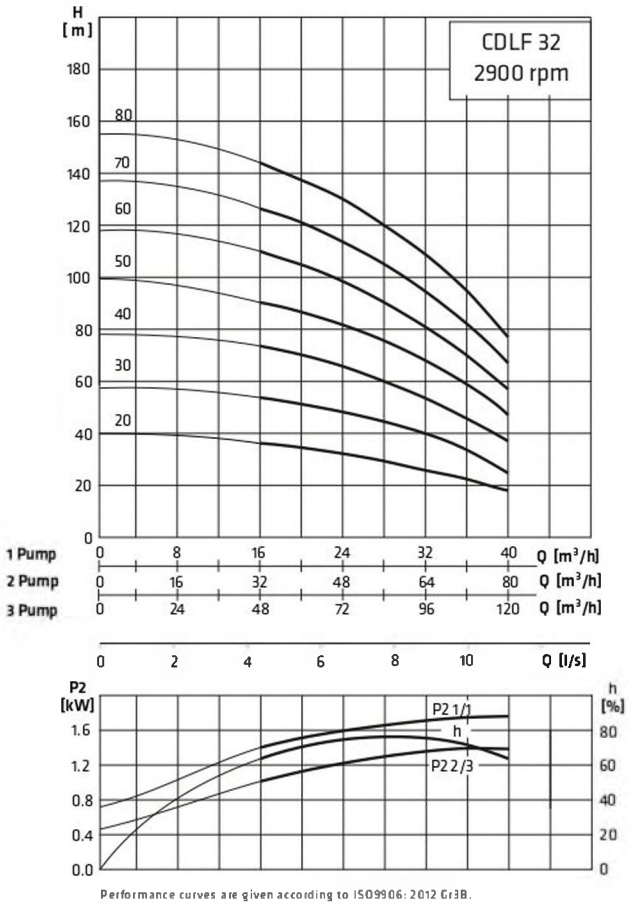
Booster set with three pump

CDLF (32,42,65,85) NPU Baseplate Design





Performance Curve and Dimension Charts

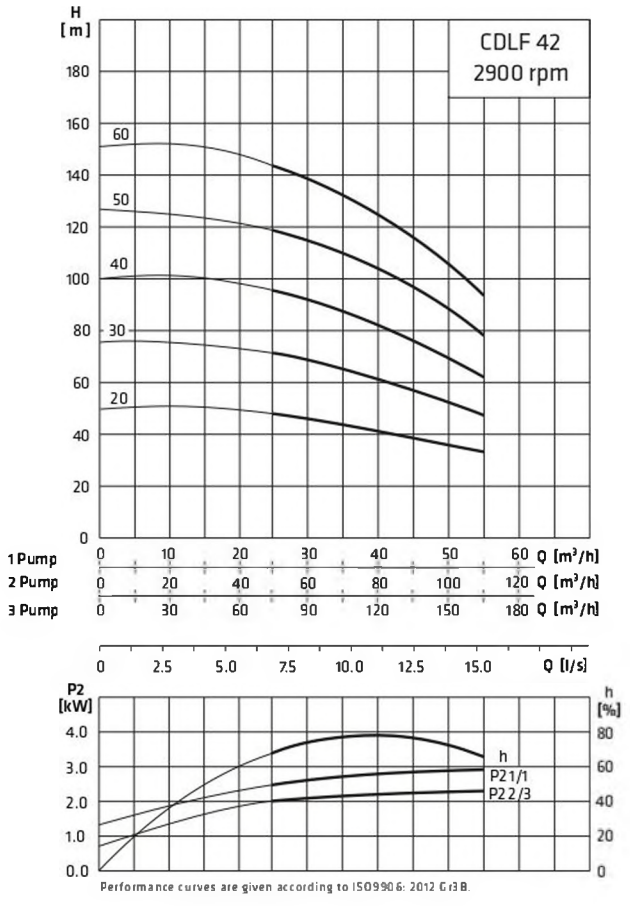


Performance curves are given according to ISO9906: 2012 Gr3B.

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 32-20	4	2 1/2"	2 1/2"	570	610	1000	530	470	590	235	B	116
TH-1xCDLF 32-30	5,5					1150						131
TH-1xCDLF 32-40	7,5					1200						140
TH-1xCDLF 32-50	11					1550						241
TH-1xCDLF 32-60						1600						245
TH-1xCDLF 32-70	15					1650						264
TH-1xCDLF 32-80						1750						268

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 32-20	4	4"	4"	850	930	1000	810	790	890	235	B	273
TH-2xCDLF 32-30	5,5					1150						303
TH-2xCDLF 32-40	7,5					1250						321
TH-2xCDLF 32-50	11					1550						482
TH-2xCDLF 32-60						1650						490
TH-2xCDLF 32-70	15					1700						518
TH-2xCDLF 32-80						1800						526

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 32-20	4	5"	5"	1300	950	1000	1260	810	915	235	B	413
TH-3xCDLF 32-30	5,5					1150						458
TH-3xCDLF 32-40	7,5					1250						485
TH-3xCDLF 32-50	11					1550						721
TH-3xCDLF 32-60						1650						733
TH-3xCDLF 32-70	15					1700						780
TH-3xCDLF 32-80						1800						792



Performance curves are given according to ISO9906: 2012 Gr3B.

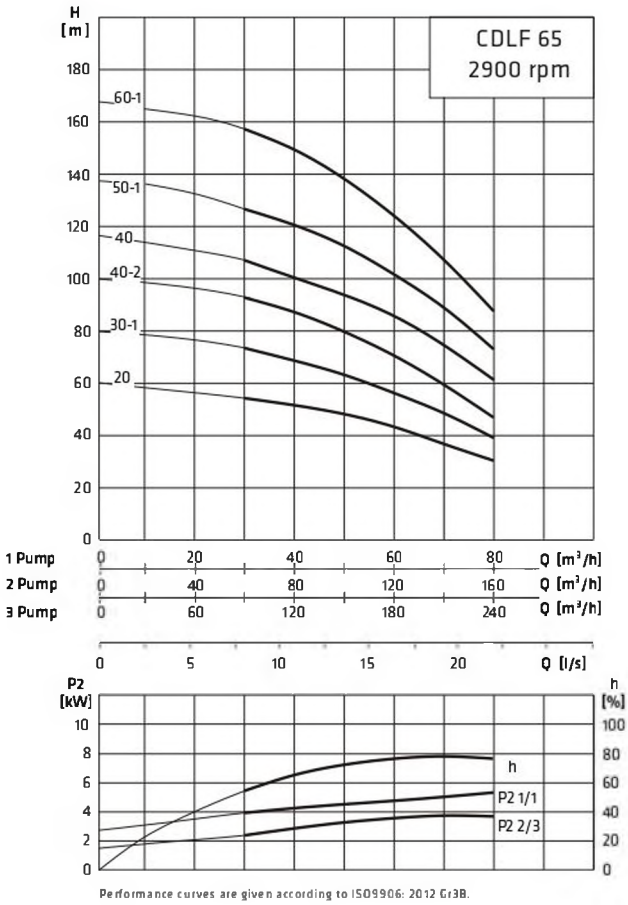
Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 42-20	7,5	3"	3"	570	570	1250	530	430	550	285	B	149
TH-1xCDLF 42-30	11					1450						222
TH-1xCDLF 42-40	15					1550						236
TH-1xCDLF 42-50	18,5					1700						260
TH-1xCDLF 42-60	22					1800						300

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 42-20	7,5	4"	4"	850	1075	1250	810	935	1035	285	B	332
TH-2xCDLF 42-30	11					1500						493
TH-2xCDLF 42-40	15					1600						521
TH-2xCDLF 42-50	18,5					1750						569
TH-2xCDLF 42-60	22					1850						649

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 42-20	7,5	5"	5"	1300	1100	1250	1260	960	1060	285	B	500
TH-3xCDLF 42-30	11					1500						739
TH-3xCDLF 42-40	15					1600						786
TH-3xCDLF 42-50	18,5					1750						858
TH-3xCDLF 42-60	22					1850						978

Performance Curve and Dimension Charts

TH CDLF

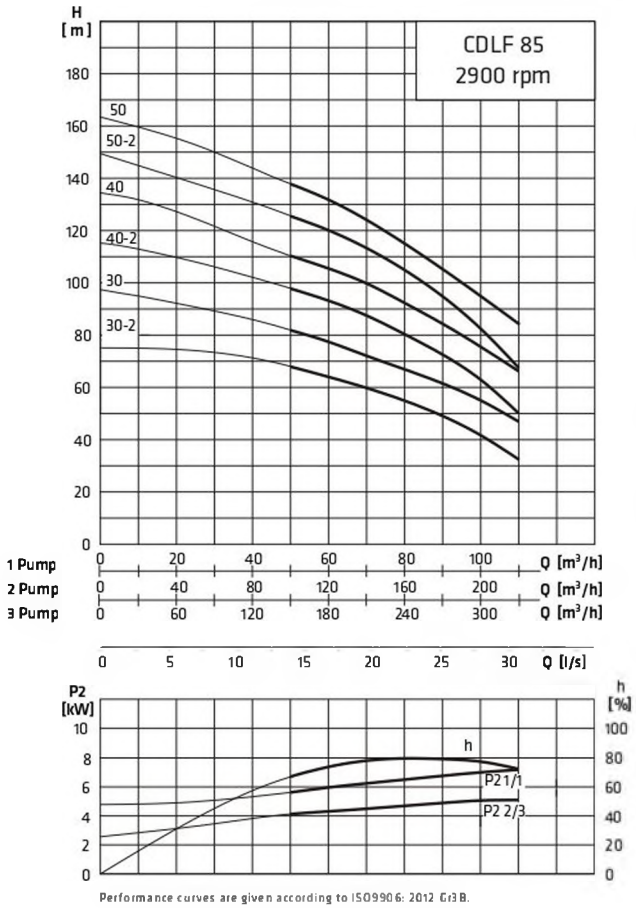


Performance curves are given according to ISO9906: 2012 Gr3B.

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 65-20	11	4"	4"	570	600	1450	530	460	585	320	B	221
TH-1xCDLF 65-30-1	15					1550						236
TH-1xCDLF 65-40-2	18,5					1650						264
TH-1xCDLF 65-40	22					1700						297
TH-1xCDLF 65-50-1	30					1850						358
TH-1xCDLF 65-60-1	37					1950						388

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 65-20	11	5"	5"	850	1150	1500	810	1010	1085	320	B	486
TH-2xCDLF 65-30-1	15					1550						531
TH-2xCDLF 65-40-2	18,5					1700						592
TH-2xCDLF 65-40	22					1750						663
TH-2xCDLF 65-50-1	30					1900						785
TH-2xCDLF 65-60-1	37					2000						850

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 65-20	11	6"	6"	1300	1150	1500	1260	1010	1110	320	B	731
TH-3xCDLF 65-30-1	15					1550						796
TH-3xCDLF 65-40-2	18,5					1700						885
TH-3xCDLF 65-40	22					1750						984
TH-3xCDLF 65-50-1	30					1900						1167
TH-3xCDLF 65-60-1	37					2000						1262



Performance curves are given according to ISO9906: 2012 Gr3B.

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-1xCDLF 85-30-2	18,5	4"	4"	570	600	1650	530	460	600	340	B	254
TH-1xCDLF 85-30	22					1700						291
TH-1xCDLF 85-40-2	30					1850						351
TH-1xCDLF 85-40						1850						351
TH-1xCDLF 85-50-2	37					1950						375
TH-1xCDLF 85-50						1950						375

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-2xCDLF 85-30-2	18,5	6"	6"	850	1150	1700	810	1010	1125	340	B	562
TH-2xCDLF 85-30	22					1700						651
TH-2xCDLF 85-40-2	30					1900						776
TH-2xCDLF 85-40						1900						781
TH-2xCDLF 85-50-2	37					2000						829
TH-2xCDLF 85-50						2000						834

Pump Type	kW	De	Db	Ba	Bb	H	Ka	Kb	E	A	Tas.	w
TH-3xCDLF 85-30-2	18,5	8"	8"	1300	1250	1700	1260	1110	1180	340	B	860
TH-3xCDLF 85-30	22					1700						991
TH-3xCDLF 85-40-2	30					1900						1176
TH-3xCDLF 85-40						1900						1176
TH-3xCDLF 85-50-2	37					2000						1248
TH-3xCDLF 85-50						2000						1253

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