

Description / Project	Q'ty	Refinery / Client	Dimensions, mm (I.D x L x T)	Material (comparable analog of local grade provided )	Total weight (ton, excl. internals)	T (design), °C	P (design), Mpa	Delivery	Remarks
Reactor R-601 / CCR Unit	1	Surgutneftegas	3000x8050x86	SA 387Gr11Cl12 + SS 321	44	500	4,5	2016	
Column K-5 / CDU	1	Surgutneftegaz	1 800 (2200)x 35000x22	SA516 Gr70	36	220	0,6	2015	incl. assembly at site and installation
Column K-6 / CDU	1	Surgutneftegaz	1600 (2200)x 45190 x16	SA516 Gr70	48	220	0,6	2015	incl. assembly at site and installation
Feed Heat Exchanger / DHT Unit	2	Surgutneftegas	1100x7000x38/ 34+4	SA 387Gr11Cl12 + SS 321	50	430/430	6,0/6,0	2015	
Feed Heat Exchanger / DHT Unit	2	Surgutneftegas	1100x7000x38(3 4+4)	SA 387Gr11Cl12 + SS 321	50	430/430	6,0/6,0	2015	
HP Amine Absorber / DHT Unit	1	Rosneft	1600x23255x55	SA516 Gr70 HIC2	55	100	5,9	2014	
Stripping Column / DHT Unit	1	Rosneft	2200(3850) x29080x 20(24,25)	SA516 Gr70 HIC2	68	355	6,5	2014	
LP Amine Absorber / DHT Unit	1	Rosneft	1000x26900x18	SA516 Gr70 HIC2	16	100	6	2014	
Washing Absorber / HC Unit	1	Rosneft	1300x28570x18	SA516 Gr70 HIC2	21	232	1,25	2014	
Stripping Ammonia Column / HC Unit	1	Rosneft	2400x45765x22	SA516 Gr70 + 321	75	170	0,7	2014	
Column K-1 / VDU	1	Surgutneftegaz	4600x25450x18	SA516 Gr70 + 410S	52	270	0,77	2014	incl. 2 parts assembly at site and installation
Vacuum Column K-5 / VDU	1	Surgutneftegaz	5800x25000x22	SA516 Gr70 + 410S	101	385	0,1	2014	incl. 8 parts assembly at site and installation
Column K-9 / VDU	1	Surgutneftegaz	3300x43465x14	SA516 Gr70	43	200	0,7	2014	incl. 3 parts assembly at site and installation
Column K-10 / VDU	1	Surgutneftegaz	3600x43420x16	SA516 Gr70	51	200	0,6	2014	incl. 3 parts assembly at site and installation
Depropaniser / SAAU	1	Rosneft	1200/1600x29054 x16(18)	SA516 Gr70	23	140	2,2	2014	incl. 2 parts assembly at site
Debutaniser / SAAU	1	Rosneft	1200/1600x12(16)	SA516 Gr70	25	220	0,87	2014	incl. 2 parts assembly at site
Hydropreparation Reactor / Lube Hydrotreatment Unit	1	Rosneft	2000x29800x120/ 145	CrMoV + A351CF	226	448	20,75	2014	
Hydroisodewaxing Reactor / Lube Hydrotreatment Unit	1	Rosneft	2000x29800x100/ 125	CrMoV + A351CF	198	408	18,01	2014	

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HDF Reactor / Lube Hydrotreatment Unit	1	Rosneft	2000x19170x125/70	CrMoV +	105	380	16,98	2014	
Jet Reactor / SAAU Unit	3	Rosneft	2000x19170x125/70	SA516Gr70	13	50	1,2	2014	
Heat Exchanger / DHT Unit	4	Rosneft	1800x8983x50/60	SA 542 Grade D + SS 321	203	325/425	7,7/6,1	2014	
Sulfur Condenser / Combi Unit	4	Rosneft	2100/ 2400x11000	SA 516 Gr70	157	185/360 185/340 155/260 185/350	8,0/7,0 8,0/7,0 5,0/7,0 6,0/7,0	2014	
Heat Exchanger / CDU Unit	1	Slavneft	900x7370x14	SA 516 Gr70	11	250/310	0,4/1,35	2014	
Heat Exchanger / DHT Unit	1	Slavneft	2400x8700x18	SA 516 Gr70	19,6	220/280	0.15/0.1	2014	
Heat Exchanger / CDU Unit	1	Slavneft	700x7320x10/16	SA 516 Gr70	12,4	220/250	1,4/1,45	2014	
Heat Exchanger / CCR Unit	1	Slavneft	426x7250x14	SA 516 Gr70	5,8	45/105	0.3/3.2	2014	
Tube Bundles / CCR Unit	3	Surgutneftegas	1073x6000	SA 516 Gr70	8	250/250	3,5/3,5	2014	
Tubular Heat Exchanger / CDU-VDU-2	1	Surgutneftegas	600x6960	SA 516 Gr70 + C46400 C68700	4,75	55/150	1,0/2,5	2014	
Circulating Sulfur Acid Cooler / SAAU Unit	6	Rosneft	1200x7998x18	SA 516 Gr70 /SA 216 Tp.316Ti	110	-0,3	3/2,5	2014	
Heat Exchanger / HT Unit	2	Gazprom	1400x9565x45/50	SA387 Gr11Cl12 + SS316Ti	80	300/360	6,4/6,4	2014	
Heat Exchanger / HT Unit	1	Gazprom	1400x9565x45/50	SA387 Gr11Cl12 + SS316Ti	40	300/360	6,4/6,4	2014	
Heat Exchanger / HT Unit	2	Gazprom	1400x9565x45/50	SA387 Gr11Cl12 + SS316Ti	80	300/360	6,4/6,4	2014	
Heat Exchanger / HT Unit	1	Gazprom	1300x9455x28/39	SA387 Gr11Cl12 + SS316Ti	28	350/360	4,0/6,4	2014	
Cooler (Coupled) / HT Unit	2	Gazprom	1000x7700x24/36	SA 516 Gr70 SA 321	81	150/100	6,4/5,0	2014	
Heat Exchanger / DHT Unit	102	Surgutneftegas	-	SA 387Gr11Cl12 + SS 321 Sa 321 SA516Gr70 + SS321 SA316Ti	1 800	-	-	2013- 2014	Full H/Ex Package for DHT Unit
PBBF Fractionation Column K-301 / MTBE Unit	1	Slavneft	2000(2800)x 44050x24(30)	SA516 Gr70	89	140	2,66	2013	
Column / Sulfur Recovery Unit	1	Rosneft	500(800/1400)x 22510x 6(8/12/14)	SA 316Ti SA516 Gr70 + 410S	14	100/ 170	0,95	2013	
Column / Sulfur Recovery Unit	1	Rosneft	1600x29150x16	SA516 Gr70	31	150	0,5	2013	

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Absorber / Sulfur Recovery Unit	1	Rosneft	800(1400)x 15400x10(12)	SA516 Gr70	8,4	150	0,5	2013	
Dried Gas Amine Absorber / HC Unit	1	Slavneft	1000(1400)x207 75x12(10,14,12)	SA516Gr60HIC	8,9	120	0,98	2013	
Column K-1 / GF Unit	1	Rosneft	1600x29308 x16(18)	SA516 Gr70 + 410S	29	150	1,7	2013	
Deethanizer Column / GF Unit	1	Rosneft	1600x34315x24	SA516 Gr70 + 410S	34	200	3,3	2013	
Column K-601 / VDU	1	Slavneft	1200/1800	SA516 Gr70	23	280	0,4	2013	
Reformer / CCR Unit	2	Slavneft	2400x11408x90	CrMoV	31	525	3,04	2013	
MTBE Reactor / MTBE Unit	1	Slavneft	4000x24521x30	SA 387Gr11Cl12 + SS 321	80	110	1,05	2013	
SAAU Reactor / SAAU Unit	1	Slavneft	1200x10935x14	SA 516 Gr70	11	50	1,5	2013	
Heat Exchanger / FCC Unit	3	Slavneft	273x3450x6	Sa 516Gr70	1,605	104/50	1,49/ 1,49	2013	
Feed Heat Exchanger / FCC Unit	4	Gazprom	1200x10900x36/ 50	SA 387Gr11Cl12 + SS 321 SA 321	133	450/500	5,8/5,8	2013	
Heat Exchanger / DHT Unit	44	Surgutneftegas	-	Sa 516Gr70 SA 321 SA 387Gr11Cl12 + SS 321 SA 516Gr70 + SS321	441	-	-	2013	Full H/Ex Package for DHT Unit
Cooler / CDU	1	Surgutneftegas	600x8100	SA516Gr70 C68700	4	300/100	1,9/0,93	2013	
Heater; Cooler / DHT UnitΠ	3	Slavneft	1000x5618x12 800x13250x16 600x3840x8	SA516Gr70 C68700	26	250/200 150/150 200/200	1,0/0,07 3,5/0,75 1,0/0,75	2013	
Heat Exchanger / CDU	4	Slavneft	1000x7660x16 1000x10660x16	SA516Gr70	55	300/300	2,5/2,5	2013	
Condenser; Cooler-Condenser; Heat Exchanger / SAAU Unit	6	Slavneft	1000x5200x6 600x6900x4 1400x8520x18/ 12	SA316Ti SA516Gr70	51	100/100 200/100 502/172 40/40	0,9/0,6 0,35/0,3 1,15/0,6 40,35/2, 57	2013	
Cooler; Thermosyphon; Heat- Exchanger / MTBE Unit	4	Slavneft	400x6270x5 1000x6385x22 400x7120x5	SA516Gr70	26	80/50 300/140 100/140	2,66/0,7 1,9/ 2,664 3,46/ 2,66	2013	
Heat Exchanger / FCC Unit	3	Slavneft	1000x11250x8 600x7300x6 400x372x5	SA516Gr70 SA 403 5CrMo16	57	400/400 250/250	3,7/3,7 2,25/ 2,25	2013	

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Heat Exchanger / DHT Unit	2	Slavneft	325x1600x10 235x4690x10	SA516Gr70 CS	1	200/100	0,3/0,8 0,3/0,6	2013	
Tube Bundles / CDU Unit	3	Surgutneftegas	1200x9000	SA516Gr70	40	332/263	27,2/ 27,2	2013	
Heat Exchanger / Hydrodewaxing Unit	1	Surgutneftegas	1200x4000x10	SA 321	8	165/130	4,4/1,4	2013	
Heat Exchanger; Cooler / CDU Unit	7	Slavneft	400x6785x12 1000x8550x20/ 14	SA516Gr70 SA516Gr70 + SS321 SA 321	56	-	-	2013	
Heat Exchanger (Coupled) / DHT Unit	2	Surgutneftegas	900x7551x16	SA387 Gr11Cl12 + SS316Ti SA 516 Gr 70 SA 321 13CrMo4-5 SA 316Ti	26	300/400	2,8/2,0	2013	
Cooler / CDU unit	1	Surgutneftegas	600x6960x12	SA 516 Gr70 + C46400 C68700	4	100/300	9,3/1,9	2013	
Methyldethanolamine Absorber K- 101 / DHT Unit	1	Slavneft	1400(1000)x 21730x50(38)	SA516 Gr70	35	120	8,71	2012	
Stripping Column K-102 / DHT Unit	1	Slavneft	3000(2400;1600) x29870x 20(18;16)	SA516 Gr70 + SS316Ti	50	282	1,04	2012	
Methyldethanolamine Absorber K- 401 / DHT Unit	1	Slavneft	3100(1800)x 29020x22(16)	SA516 Gr70 + 321	43	165	0,65	2012	
Column C-202 / Isomerisation	1	Rosneft	3800x66500x18	SA516 Gr70	140	160	0,55	2012	incl. 4 parts assembly at site and installation
Stripping Column T-301 / CCR Unit	1	Rosneft	3700(2000)x 34500x28(22)	SA516 Gr70	104	290	1,6	2012	
Propane Column II-K-1 / GF Unit	1	Slavneft	1600x29260x22	SA516 Gr70 + 321	37	180	2,5	2012	
CH Gas Adsorber K-105 / DHT Unit	1	Slavneft	17000x900x16	SA516 Gr70	8	120	1,05	2012	
Stripping Column K-101 / DHT Unit	1	Rosneft	3800x35480x18 (22)	SA516 Gr70 + SS316Ti	76	269	0,43	2012	
Column K-102 / DHT Unit	1	Rosneft	1500x33190x18	SA516 Gr70 + SS316Ti	30	180	1,6	2012	
Amine Absorber K-103 + Separator E- 104 / DHT Unit	1	Rosneft	1000 (1400)x30750x 16 (18)	SA516 Gr70	30	115	1,6	2012	
Column K-201 / DHT Unit	1	Rosneft	2100x35480x18 (22)	SA516 Gr70 + SS316Ti	75	270	0,43	2012	
Amine Absorber K-301 + Separator E- 301 / DHT Unit	1	Rosneft	1900x27900x80	SA516 Gr70	111	150	8,57	2012	

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Amine Regenerator K-401 / DHT Unit	1	Rosneft	2400x26120x20	SA516 Gr70 + SS316Ti	38	129,7	0,45	2012	
DHT Reactor / DHT Unit	2	Gazprom	3600x18670x116	SA 387Gr11Cl12 + SS 321	175	450	6,3	2012	
DHT Reactor / DHT Unit	1	Slavneft	4000x26700x137	SA- 387Gr22Cl12+ Tp347	339	415	9,87	2012	
DHT Reactor / CCR Unit	1	Rosneft	3100x14345x85	SA 387Gr11Cl12 + SS 321	83	375	6,25	2012	
Cooler (Coupled); Heat Exchanger / FCC Unit	8	Slavneft	800x7090x12/ 18 1000x10270x12 /18	SA 516 Gr 70 SA 321	74	200/100 100/100	2,5/2,5 2,5/2,5	2012	
Heat Exchanger / CCR Unit	1	Surgutneftegas	800x14560x22	SA 387Gr11Cl12 + SS403 5CrMo16	19	220/280	5,0/5,0	2012	
Heat Exchanger / Dry Gas Treatment Unit	2	Slavneft	1000x4650x10	SA 321	9	150/220	0,57/ 0,64	2012	
Heat Exchanger / Lube Production Unit	2	Slavneft	600x7475x20	13CrMo4-5 SA321	16	400/400	6,2/6,2	2012	
Cooler / Cathalyst Unit	1	Slavneft	500x7945x6	SA316Ti	6	200/200	1,6/1,6	2012	
Cooler; Condenser; Heat Exchanger / SAAU Unit	6	Slavneft	800x7115x10 800x10085x10/15	SA 321 SA 316Ti	44	200/100 200/100	1,1/1,0 2,5/2,5	2012	
HDT Feed Heat Exchanger (Tripled) / Combi Unit	9	Rosneft	1400x10400x30	SA 387Gr11Cl12 + SS 321 SA 321	365	350/400	4,7/4,7	2012	
Air Cooler / FCC Unit	15	Rosneft	10146x3100x732 5 3750x2800x5075 3650x3940x4975 1500x2000x1810	SA 516Gr70	300	150 130 215 400	0,55 1,62 1,17 1,6	2012	
Steam Generator / FCC Unit	2	Rosneft	1000/1600x 10000x42	SA 516Gr70 SA 516Gr70 + SS403	54	285/395	5,1/3,85	2012	
Tube Bundle / CCR Unit	1	Surgutneftegas	875x6300	SA 516 Gr70 + C46400 C68700	4	100	1	2012	
Methyldethanolamine Absorber K- 104 / DHT Unit	1	Slavneft	1600(700)x 22390x14(14)	SA516 Gr70	13	140	1,01	2011	
Gasoline Stabilizer Column K-301 / DHT Unit	1	Slavneft	1000x27400x18		18	200	1,45	2011	

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Vacuum Stripping Column K-103 / DHT Unit	1	Slavneft	2200x22000x20	SA516 Gr70	25	260	0,35	2011	
Hydrogenation Reactor / HT Unit	1	Slavneft	1800x28100x34		41	360	4,07	2011	
HDS Reactor / HT Unit	2	Slavneft	2800x16395x50	SA 387Gr11Cl12 + SS 321	46	420	3,9	2011	
Reformer / CCR Unit	2	Slavneft	2400x8300x110		40	525	3,6	2011	
DHT Reactor / DHT Unit	2	Gazprom	3600x14940x116	SA 387Gr11Cl12 + SS 321	142	450	6,3	2011	
Feed Heat Exchanger (Coupled); Reboiler / DHT Unit	14	Slavneft	800x7190x 10+4 1000x7760x12 500x7050x14 1000x7680x12 2400x10320x16	SA 516 Gr 70 SA 321 SA 316Ti SA387 Gr11Cl12 + SS316Ti	252	165/107 269/236 150/200 260/120 165/250	1,24/1,6 1,28/1,6 2,0/2,5 1,6/1,6 6,5/6,0	2011	
Thermosyphon Vaporizer / CCR Unit	1	Slavneft	1200x8110x20	SA 516 Gr 70	21	270/400	0,67/ 1,35	2011	
Feed Heat Exchanger (Coupled) / DHT Unit	8	Gazprom	1100x8400x36	SA 387Gr11Cl12 + SS 321	224	360/420	6,12/5,2	2011	
Feed Heat Exchanger / DHT Unit	6	Slavneft	1300x10400x62 +6 1200x10200x58 1200x10200x68 1200x9500x50	SA 387Gr22Cl12 + SS 321 SA 516 Gr 70 + SS321 SA 321 SA542 Grade D + SS321	283	373/415 286/328 247/293 143/204 326/ 363 (415)	1,06/0,9 1,07/0,9 1,08/0,9 0,74/0,9	2011	
Naphta Separation Column / Isomerisation	1	Slavneft	2400x21120x22	SA516 Gr70	71	170	0,6	2010	
Stripping Column K-201 / Isomerisation	1	Slavneft	2200x34410x24	SA516 Gr70	45	200	1,6	2010	
Stabilizer Column K-302 / Isomerisation	1	Slavneft	2400x40390x22	SA516 Gr70	55	200	1,8	2010	
Stabilizer Column K-201 / HT Unit	1	Slavneft	2600x30000x22	SA516 Gr70	42	245	1,09	2010	
Stripping Column K-302 / HT Unit	1	Slavneft	2800x26110x38	SA516 Gr70	42	210	2,72	2010	
Methyldethanolamine Absorber K- 301 / HT Unit	1	Slavneft	1700x20000x30		35	120	2,72	2010	
methyldethanolamine Regenerator K- 401 / HT Unit	1	Slavneft	2100x20000x12	SA516 Gr70 + SS316Ti	9	150	0,47	2010	
Gasoline Stabilizer Column K-4 / VDU	1	Slavneft	2400x31400x18	SA516 Gr70	39	225	1,4	2010	
Deisopentanizer K-301 / Isomerisation	1	Slavneft	3100x77617x26	SA516 Gr70	180	140	0,7	2010	incl. 5 parts assembly at site and installation

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Deisohexanizer K-303 / Isomerisation	1	Slavneft	4400x80000x26	SA516 Gr70	280	160	0,8	2010	incl. 5 parts assembly at site and installation
Fractionation Column K- 101 / HT Unit	1	Slavneft	4100x50000x30	SA516 Gr70	125	275	1,66	2010	incl. 3 parts assembly at site and installation
HT Reactor / CCR Unit	1	Slavneft	2600x9256x65	SA 387Gr11Cl12 + SS 321	30	560	5	2010	
Feed Heat Exchanger (Tripled) / CCR Unit	6	Rosneft	850x8670x20	SA 387Gr11Cl12 + SS 321 SA 321	198	420/350	3,5/ 3,5	2010	
Thermosyphon Vaporizer / CCR Unit	1	Slavneft	1200x8110x20	Sa 516 Gr 70	21	270/400	0,67/ 1,35	2010	
Water Cooler; Heater / HT Unit	3	Slavneft	700x7200x16 300x3960x12	SA 516 Gr 70 SA 321	2	135/120 200/120	3,24/ 2,59 0,84/ 1,05	2010	
Feed Heat Exchanger; Water Cooler / HT Unit	8	Slavneft	1400x8230x18/ 20 1400x8575x22 1200x7662x22	SA387 Gr11Cl12 + SS316Ti SA 516 Gr 70 SA 321 13CrMo4-5 SA 316Ti	156	230/270, 270/330, 325/470, 140/120	27,2/ 27,1	2010	
Heater (Coupled); Feed Heat Exchanger; Reboiler / HT Unit	6	Slavneft	1200x7950x34 800x7710x25 1200x8047x25 2000x9353x20	SA 516 Gr 70 SA 321	113	235/170 260/225 250/205 150/190	3,32/4,2 3,32/4,2 4,2/4,2 1,2/1,5	2010	
Column K-601 / VDU	1	Surgutneftegaz	3200x28435x24	SA516 Gr70 + 410S	56	270	1,7	2009	
HDS Reactor / DHT Unit	2	Slavneft	3200x13115x100	SA 387Gr11Cl12 + SS321	100	425	6	2009	
Heat Exchanger (Coupled) + 1 shell; Heat Exchanger T-5 (Coupled); Water Cooler X-1 / Hydrodewaxing Unit	7	Surgutneftegas	1300x9570x65 1100x6920x60 900x5890x38	SA 321 SA 516 Gr 70 SA 516 Gr 70 + SS321	288	455 300/ 250 100/ 100	3,4 9,4/ 7,2 9,4/ 1,0	2009	
Steam Generator / Sulfur Acid Regeneration Unit	1	Slavneft	1370x5291x42	Sa 516 Gr 70	27	300/420	6,5/ 0,05	2009	
Stabilizer Column / DHT Unit	2	TNK-BP	2800x31300x16	SA516 Gr70 + SS321	74	350	0,41	2008	
Column K-2 / Isomalk Unit	1	Surgutneftegaz	1800x10000x28	SA516 Gr70 + 410S	17	150	3,9	2008	
Column K-801 / CR Unit	1	Rosneft	2600x50100x12	SA516 Gr70	43	230	0,65	2008	incl. 2 parts assembly at site and installation

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Deisohexanator Column C-202 / Isomerisation Unit	1	Rosneft	3800x66500x18	SA516 Gr70	140	160	0,55	2008	incl. 4 parts assembly at site and installation
Column K-2 / CDU	1	Slavneft	5000x50160x25	SA516 Gr70 + 410S	150	395	0,6	2008	incl. 3 parts assembly at site and installation
Reactor R-1 / Isomerisation Unit	1	Surgutneftegas	2600x9256x65	SA 387Gr11Cl12 + SS 321	30	560	5,2	2008	
HDS Reactor / Hydrogen Unit	1	Slavneft	2800x4000x55	SA 387Gr11Cl12	30	410	4,2	2008	
H2S Adsorber / Hydrogen Unit	2	Slavneft	1900x13740x40	SA 387Gr11Cl12	24	410	4,2	2008	
Prereforming Reactor / Hydrogen Unit	2	Slavneft	2500x120000x120	CrMoV	70	560	3,45	2008	
Carbon Monoxide Shift Reactor / Hydrogen Unit	1	Slavneft	3000x10500x50	13CrMo4-5	51	450	2,85	2008	
Feed Heat Exchanger (Tripled) / DHT Unit	6	Rosneft	1100x8415x45	SA 387Gr11Cl12 + SS 321 SA 321	152	360/ 425	7,0/6,5	2008	
Feed Heat Exchanger / DHT Unit	6	Gazprom Neft	1200x8570x43	SA 387Gr11Cl12 + SS 321 SA 321	259	370/ 425	6,1/ 6,1	2008	
Feed Heat Exchanger (Coupled) / DHT Unit	4	TNK-BP	1200x8560x41	SA 387Gr11Cl12 + SS 321	102	100/100	9,4/ 1,0	2008	
Hydrogenation Reactor / DHT Unit	4	Rosneft	2800x14500x90	SA 387Gr11Cl12 + SS 321	100	450	6,9	2007	
Feed Heat Exchanger (Coupled) / DHT Unit	8	Slavneft	1400x9750x50	SA 387Gr11Cl12 + SS 321 SA 321	326	350 (550)/ 430 (550)	5,7 (6,0)/ 5,7 (6,0)	2007	
HDS Reactor / DHT Unit	2	Gazprom Neft	3600x24950x110	SA 387Gr11Cl12 + SS 321	220	435	6,1	2006- 2007	