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Gasaustritt-Stellung GAS OUTLET POSITION	x	y
15 °	2747	7061
30 °	2912	6993
45 °	3054	6884

Exco. code number	Pos. code no	Article number	Designation	Source of supply	Modification letter
PER ENGINE		Drawing number	Material and remarks	mass change	
Number of	1	001 107.377.306.500	Rohranschlussplan		
		0-107.377.306		0.001	
			PIPE CONNECTION PLAN		
				DRAWING 2	

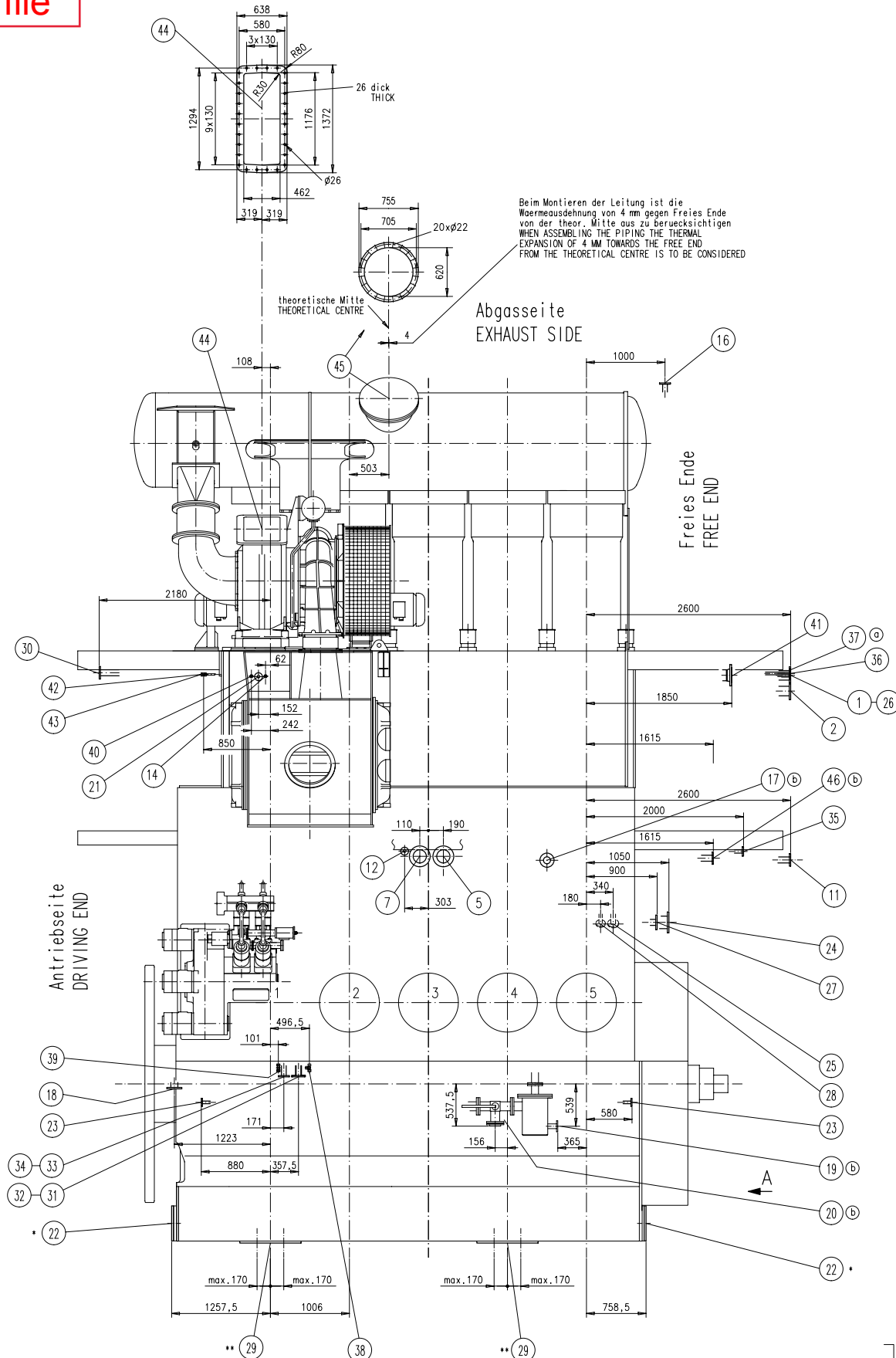
Alle Flanschanschluesse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss fuer den Gasaustritt am Turbolader. Die Blindflansche sind nach dem betreffenden Rohrdurchmesser des Werftanschlusses aufzubohren. A  
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES BLIND, WITH EXCEPTION OF THE TURBO-CHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

Die Gewinde-Anschlüsse werden komplett geliefert  
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

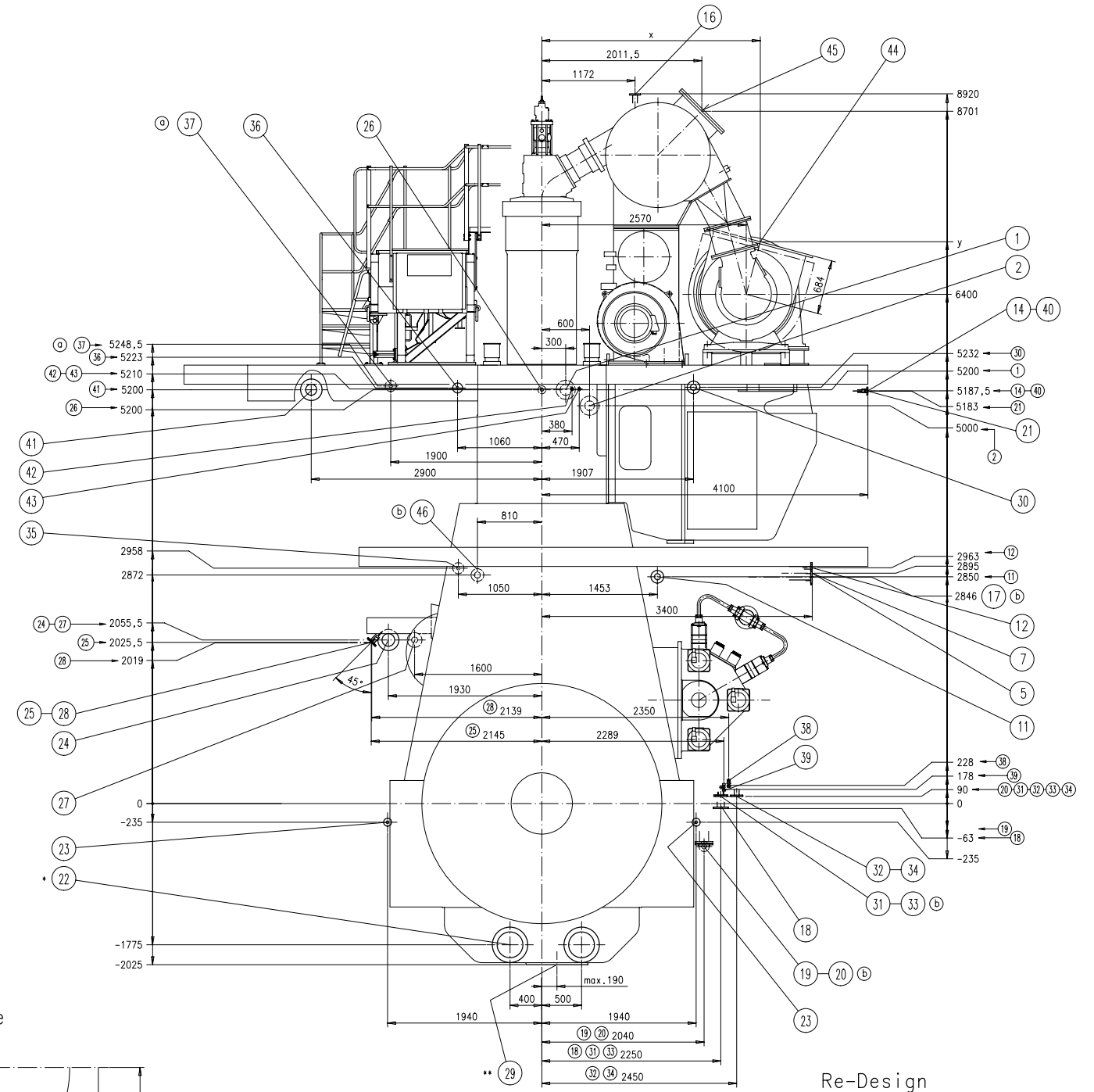
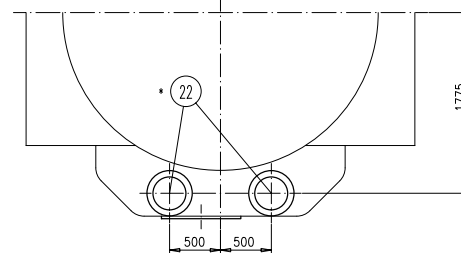
1 x TPL77-B

- \* Optionelle Ausführung (wenn verlangt)  
OPTIONAL EXECUTION (IF REQUIRED)
- \*\* Standard Ausführung  
STANDARD EXECUTION

Antriebsseite  
DRIVING END



A  
Freies Ende  
FREE END



































## Re-Design









































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			7-77.362 05.11.09							
			Number	Draw date	Number	Draw date	Number	Draw date		
			Q-Code	X   X   X   X   X   X	Substitute for		Scale	1:25		
		Rohranschlussplan Zeichnung 1				Drawn: P.BARBATO 26.03.07 Barbarito/P.Frei 26.03.07 Mettlitz Schweiz AG Ltd				
		PIPE CONNECTION PLAN DRAWING 1				CAD				
Design group 8020	ISO	O- 107.383.751				Page: H	WARTSILA			

SURFACE PROTECTION SEE GROUP 034
GENERAL TOLERANCES ACCORDING TO

Design group	ISO	0-107.383.751	Page:	H	WÄRTSILA
8020					

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								Leitungs - Anschlüsse PIPE - CONNECTIONS	
		ISO STANDARD	JIS STANDARD			Ko. Gr. GROUP	Freies Ende FREE END	Anschlus- stelle DRIVING END	Freies Ende FREE END
b	①			Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN125	8305	X		
	②			Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN125	8310	X		
	③								
	④								
	⑤			SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	1 T.-CHARGER DN150 2 T.-CHARGER DN200	8335			
	⑥								
	⑦			SLK Leitung Kuehlwasser Austritt und Entluftung SAC PIPE COOLING WATER OUTLET AND AIR VENT	1 T.-CHARGER DN150 2 T.-CHARGER DN200	8335			
	⑧								
	⑨								
	⑩								
	⑪			Sammelleitung oeliges Wasser Receiver COLLECTOR MAIN OILY WATER RECEIVER	DN65	8352	X		
	⑫			Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN25	8313			
	⑬								
	⑭			Wasser-/Luftlsg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN20	8338		X	
	⑮								
	⑯			Zylinderkuehlwasserleitung Entluftung CYLINDER COOLING WATER PIPE VENTING	DN50	8310	X		
	⑰			Sammelleitung Kondenswasser SLK Entluftung COLLEC MAIN CONDENSATE WATER SAC VENTING	DN80	8357		X	
	⑱			Leckoeleitung Versorgungseinheit LEAKAGE OIL PIPE SUPPLY UNIT	DN80	8452		X	
	⑲			Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN50	8357			
	⑳			Sammelleitung Kondenswasser SLK Washwasser Austritt COLLEC MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN50	8357			
	㉑			Sammelleitung TL Schmutzwasser COLLECTOR MAIN TC DIRTY WATER	DN25	8355		X	
	㉒			Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN300	1110	X	X	
	㉓			Sammelleitung Leckool Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN25	8463			X
	㉔			Oelleitung Eintritt OIL PIPE INLET	DN150	8406	X		

						Leitungs - Anschluesse PIPE - CONNECTIONS			
		ISO STANDARD	JIS STANDARD			Ko. Gr. GROUP	Freies Ende FREE END	Antriebsende DRIVING END	Freies Ende oder Antriebsende FREE END OR DRIVING END
**	25			Sammellgt. Schutzoeel Kolbenu.seite COLLEC. MAIN DIRTY OIL PIST.U.SIDE	DN50	8487	X		
	26			Zylinderschmierpumpen Anordnung CYLINDER LUBRICATING PUMPS ARRANG.	DN32	7206	X		
	27			Oelleitung Kreuzkopf OIL PIPE CROSSHEAD	DN65	8455	X		
	28			Sammelleitung Leckoel Stopfbuechse COLLEC. MAIN LEAKAGE OIL GLAND BOX	DN32	8488	X		
	29			Grundplatte Oelablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)		1110	X	X	
	30			Oelssystem TL Entlueftung OIL SYSTEM TC VENTING	DN65	8429		X	
	31			Brennstoffltg. Einspritzpumpe Eintritt FUEL PIPE INJECTION PUMP INLET	DN65	8702		X	
	32			Brennstoffltg. Einspritzpumpe Austritt FUEL PIPE INJECTION PUMP OUTLET	DN50	8704		X	
	33			Leckbrennstoffleitung RAIL-UNIT FUEL LEAKAGE PIPE RAIL-UNIT	DN40	8740		X	
	34			Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN40	8741		X	
a	35			Feuerloescheitung FIRE EXTINGUISHING PIPE	DN32	8830	X		
	36			Heizleitung Eintritt HEAT PIPING INLET	DN25	8810	X		
	37			Feuerloescheitung RU Eintritt FIRE EXTINGUISHING RU INLET	DN32	8832	X		
	38			Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810		X	
	39			Heizleitung Austritt HEAT PIPING OUTLET	DN15	8810		X	
	40			Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN20	8338		X	
	41			Anlassluftleitung Eintritt STARTING AIR PIPE INLET	DN125	8605	X		
	42			Steuerluftversorgung 30 bar: A2 CONTROL AIR SUPPLY	DN15	4605 4606		X	
	43			Steuerluftversorgung 8 bar: A1 CONTROL AIR SUPPLY	DN15	4605 4606		X	
	b	44	siehe Zchnng 1 SEE DRAWING 1	siehe Zchnng 1 SEE DRAWING 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509		
45		siehe Zchnng 1 SEE DRAWING 1	siehe Zchnng 2 SEE DRAWING 1	Abgassammelleitung (fuer Motoren mit einem Turbolader) EXHAUST MANIFOLD (FOR ENGINES WITH ONE TURBOCHARGER)	DN600	8103 8108			
46				Kurbelgehause Entlueftung CRANKCASE VENTING	DN65	8608	X		

- \* Optionelle Ausführung (wenn verlangt)  
OPTIONAL EXECUTION (IF REQUIRED)
- \*\* Standard-Ausführung  
STANDARD EXECUTION

Zugehoerige Zeichnungen siehe Zchg.1  
ACCOMPANYING DRAWINGS SEE DRW.

1 x TPL77-B

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 83
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## WinGD-5RT-flex58T-D\_pipe-connection-plan

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload

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