

Twin Tube Infrared Lamp For Heidelberg

Our Heidelberg-style IR lamps are interchangeable with the following part numbers

| | | |
|----------------|--------------|----------------|
| ZZZ91.170.1411 | M Offset | C7.170.0301/01 |
| 91.170.1311 | 2130012 | G4170.0101 |
| M6.170.0301/01 | 2130011 | M6.170.0301 |
| 53.170.1311 | HMO-SW-B | HMO-MW-B |
| SM 72-SW-A | SM 72-MW-B | SM 74-SW-N1 |
| SM 74-SW-B | SM 74-FMW-B | SM 74-MW-B |
| SM 74-6 PH | CD 102-SW-C | CD 102-N1 |
| SM 102-FWM-B | SM 102-SW-N1 | SM 102-FMW-B |
| SM 102-SW-A1 | SM 102-MW-A1 | SM 102-MW-B |
| SWM 102-WS-A4 | SM 102-SW-A5 | Heidelberg MO |
| 83.170.1311 | 51760489 | F7.170.0771/01 |
| F7.170.0771 | | |

We are happy to provide technical drawings on each of our lamps. For example here is a typical drawing of Heidelberg-style twin tube lamp for Speedmaster 102. Heidelberg part number is 91.170.1311. TCS Technologies part number is 111839

Infrared lamp 111839 Heidelberg SM102 pre 1997 91 170 1311 SM102-SW-A with copyright

Press: Heidelberg Speedmaster SM102 (pre-1997) Dryer: Grafix
 HD part: 91.170.1311
 Grafix part: 2130012

TCS Technologies part # 111839 SM102-SW-A

Twin tube infrared lamp 111839

| | | | | | | | | | | | |
|---|---|---|---|---|---|----|---|----|----|---|----|
| Watts: 3,500 total [channel 1: 3,500] [channel 2: 0,000] | | Cross section (mm) <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>E</td><td>x</td><td>F</td></tr><tr><td>11</td><td>x</td><td>22</td></tr><tr><td>16</td><td>x</td><td>33</td></tr></table> | E | x | F | 11 | x | 22 | 16 | x | 33 |
| E | x | F | | | | | | | | | |
| 11 | x | 22 | | | | | | | | | |
| 16 | x | 33 | | | | | | | | | |
| Volts: | 415 | | | | | | | | | | |
| X (wire length): | 19.7" (500 mm) | | | | | | | | | | |
| Y (wire length): | 19.7" (500 mm) | | | | | | | | | | |
| Wire termination: | Ring Terminal <input type="checkbox"/> Pin <input type="checkbox"/> | | | | | | | | | | |
| Gold reflector: | Yes <input type="checkbox"/> | | | | | | | | | | |
| Cross-section: | 11 x 22 X 16 x 33 <input type="checkbox"/> | | | | | | | | | | |
| Output: | Short wave infrared 1.1 to 1.3 micron | | | | | | | | | | |

TCS Technologies
 430 Sandshore Rd Unit 1
 Hackettstown, NJ 07840 USA

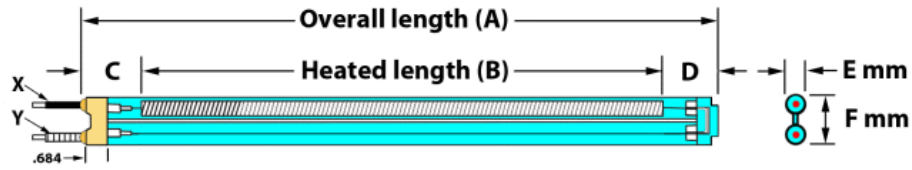
Twin tube infrared lamp 111839

| | | | |
|--------------|------------|-----------------|---------------|
| © Fitzgerald | 04-02-2006 | Short wave gold | 111839 |
|--------------|------------|-----------------|---------------|

Most twin tube infrared lamps whether medium wave or shortwave fall into the following lamp designs.



Type A

Twin tube infrared lamp TYPE "A"



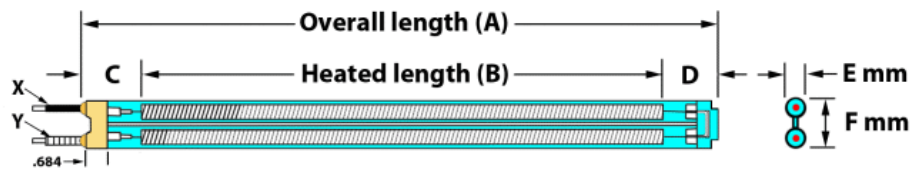
| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | E x F |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "A" | | |
|  | 06-29-2007 | Short wave gold | TYPE A |



Type B

Twin tube infrared lamp TYPE "B"



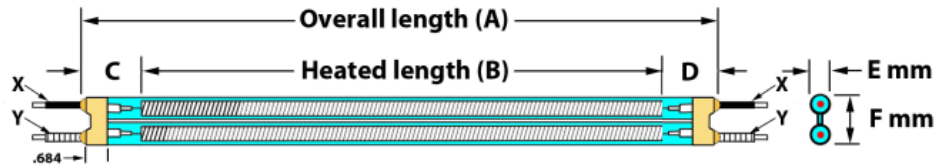
| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | E x F |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "B" | | |
|  | 06-29-2007 | Short wave gold | TYPE B |


Type C

Twin tube infrared lamp TYPE "C"



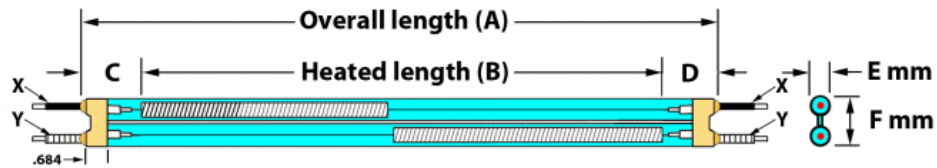
| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | E x F |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "C" | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | Type C |


Type D

Twin tube infrared lamp TYPE "D"



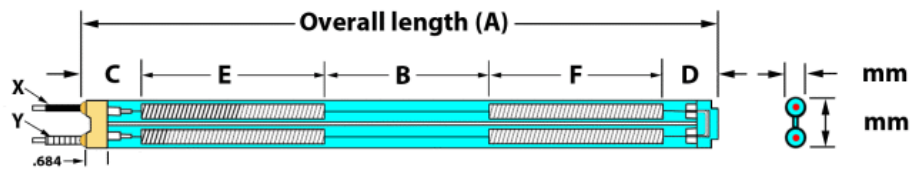
| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | E x F |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "D" | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | Type D |


Type E

Twin tube infrared lamp TYPE "E"



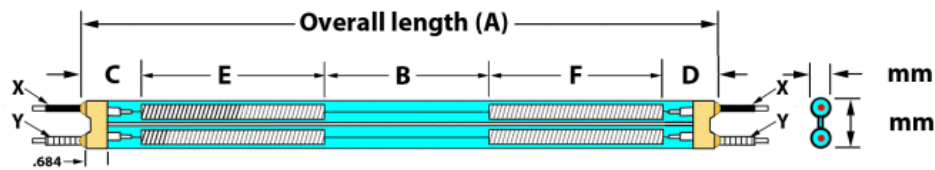
| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "E" | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | TYPE E |


Type F

Twin tube infrared lamp TYPE "F"



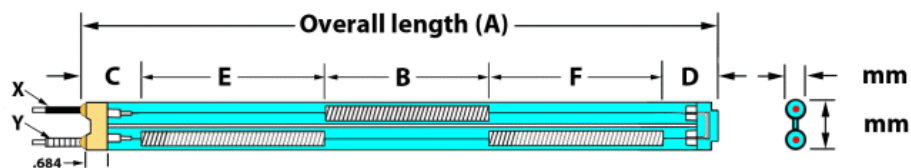
| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "F" | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | TYPE F |


Type G

Twin tube infrared lamp TYPE "G"



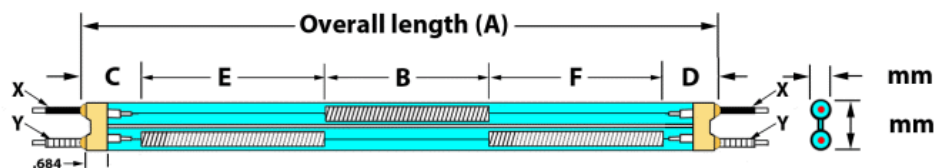
| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "G" | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | TYPE G |


Type H

Twin tube infrared lamp TYPE "H"



| | |
|-------------------|---------------------------------------|
| Watts: | |
| Volts: | |
| X (wire length): | |
| Y (wire length): | |
| Wire termination: | Ring Terminal ___ Pin ___ |
| Gold reflector: | Yes |
| Cross-section: | 11 x 22 ___ 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron |

| | |
|--------------------|---------|
| Cross section (mm) | |
| | 11 x 22 |
| | 16 x 33 |

| | | | |
|---|--|-----------------|--------|
|  | TCS Technologies 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| | Twin tube infrared lamp TYPE "H" | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | TYPE H |

Type J

Twin tube infrared lamp TYPE "J"

| | | |
|-------------------|---------------------------------------|-------------|
| Watts: | | |
| Volts: | | |
| X (wire length): | | |
| Y (wire length): | | |
| Wire termination: | Ring Terminal ___ | Pin ___ |
| Gold reflector: | Yes | |
| Cross-section: | 11 x 22 ___ | 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron | |

Cross section (mm)

| | | |
|----|---|----|
| E | x | F |
| 11 | x | 22 |
| 16 | x | 33 |

| | | | |
|---|---|-----------------|--------|
| <small>TCS Technologies For Every Laser</small> | TCS Technologies | | |
| | 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| Twin tube infrared lamp TYPE "J" | | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | Type J |

Type K

Twin tube infrared lamp TYPE "K"

| | | |
|-------------------|---------------------------------------|-------------|
| Watts: | | |
| Volts: | | |
| X (wire length): | | |
| Y (wire length): | | |
| Wire termination: | Ring Terminal ___ | Pin ___ |
| Gold reflector: | Yes | |
| Cross-section: | 11 x 22 ___ | 16 x 33 ___ |
| Output: | Short wave infrared 1.1 to 1.3 micron | |

Cross section (mm)

| | | |
|----|---|----|
| 11 | x | 22 |
| 16 | x | 33 |

| | | | |
|---|---|-----------------|--------|
| <small>TCS Technologies For Every Laser</small> | TCS Technologies | | |
| | 430 Sandshore Rd Unit 1 Hackettstown, NJ 07840 USA | | |
| Twin tube infrared lamp TYPE "K" | | | |
| G Fitzgerald | 06-29-2007 | Short wave gold | TYPE K |

Contained below are several reference infrared lamps used in Heidelberg presses:

| Press and/or dryer type | Press and/or dryer type | Cross reference # | Style Type | TOL mm | Volts | Total Watts | Channel 1 Watts | Channel 2 Watts |
|-------------------------|-------------------------------------|--------------------------|------------|--------|-------|-------------|-----------------|-----------------|
| 111834 | Speedmaster 52, Grafix dryer | G4.170.0101 SM52-SW-A | B | 740 | 415 | 3,300 | 1,650 | 1,650 |
| 111835 | M Offset Grafix dryer—short wave | HMO-SW-A 53.170.1311 | B | 740 | 415 | 3,300 | 1,650 | 1,650 |

| | | | | | | | | |
|--------|--|---|---|-------|-----|-------|-------|-------|
| 111836 | M Offset Grafix dryer-medium wave | HMO-MV-B | B | 740 | 415 | 1,800 | 900 | 900 |
| 111837 | Speedmaster 72 short wave | SM72-SW-A 83.170.1311 | B | 800 | 415 | 3,500 | 1,750 | 1,750 |
| 111838 | Speedmaster 72 medium wave | SM72-MW-B 83.170.1411 | B | 800 | 415 | 1,900 | 950 | 950 |
| 111839 | Speedmaster 102 pre-1997, Grafix dryer-short wave | 91.170.1311 Grafix 2130012 SM102-SW-A1 SM102-SW-A | A | 1,100 | 415 | 3,500 | 3,500 | 0 |
| 111840 | Speedmaster 102 pre-1997 Grafix dryer-medium wave | 91.170.1411 Grafix 2130011 SM102-MW-B | B | 1,100 | 415 | 2,500 | 1,250 | 1,250 |
| 111841 | Speedmaster 74 / CD 74 post 1997 DryStar dryer Short wave | M6.170.0301/01 SM74-SW-C | H | 900 | 400 | 6,950 | 2,800 | 4,150 |
| 111842 | Speedmaster 74 / CD 74 post 1997 Grafix SHS dryer-fast medium wave | SM74-FMW-B | B | 820 | 480 | 4,200 | 2,100 | 2,100 |
| 111843 | Speedmaster 102 / CD102 post 1997 DryStar dryer-short wave | C7.170.0301/01 SM102-SW-C 51760489 | H | 1,200 | 400 | 5,400 | 3,500 | 1,900 |
| 111844 | Speedmaster 102 / CD102 post 1997 Grafix SHS dryer-fast medium wave | SM102-FMW-B | B | 1,125 | 480 | 6,000 | 3,000 | 3,000 |
| 111845 | Speedmaster 102 / CD102 post 1997 DryStar 3000 dryer-fast medium wave | F7.170.0771 SM102-FMW- B-3000 | B | 1,160 | 400 | 6,200 | 3,100 | 3,100 |
| 111846 | Speedmaster XL105 DryStar dryer | F7.170.0771/01 SM 105XL-FMW-B | B | 1,160 | 400 | 6,200 | 3,100 | 3,100 |

